Astronomisches Jahrbuch

für

1913.

Der Sammlung Berliner astronomischer Jahrbücher
einhundert und achtunddreißigster Band.

Berliner

Astronomisches Jahrbuch

für

1913

mit Angaben für die Oppositionen
der Planeten (1)—(691)

für

1911.

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von dem

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unter Leitung von

Fritz Cohn.



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1911.



Königliches Astronomisches Recheninstitut,
Berlin SW. 68, Lindenstr. 91.

Vorwort.

Die Grundlagen des Berliner Astronomischen Jahrbuchs.

Den Ephemeriden des Jahrbuchs liegen die folgenden Tafelwerke zu Grunde:

Für die Sonne und die großen Planeten Merkur, Venus, Mars, Uranus und Neptun: die Tafeln von Newcomb, für Jupiter und Saturn: die Tafeln von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets,*
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptun.*

Für den Mond:

Tables de la lune von P. A. Hansen, unter Verbesserung der Tafel 34 für das Fundamentalargument nach Newcomb. Außerdem enthalten die Mondörter die empirischen Korrektionen von Newcomb nach: „Corrections to Hansen's tables of the Moon" (Washington, 1878).

Für den scheinbaren Mondradius ist der von J. Peters ermittelte Wert 15′ 32″.59 entsprechend der Parallaxe 57′ 2″.27 benutzt (A. N. Bd. 138, S. 147).

Bei der Berechnung der Mondörter hat die ausführliche Mondephemeride des *Nautical Almanac* der Redaktion infolge Übereinkommens mit der „*Nautical Almanac Office*" in den Aushängebogen zur Verfügung gestanden.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Recheninstituts).

Als Werte der fundamentalen Reduktionskonstanten sind nach den Beschlüssen der Pariser Konferenz vom Mai 1896 (Conférence internationale des étoiles fondamentales. Procès-verbaux. Paris 1896) angenommen:

Die Präzessions-Größen nach S. Newcomb (Astr. Papers Vol. VIII, Part I).
Die Nutations-Konstante . . 9″.21
Die Aberrations-Konstante . . 20″.47
Die Sonnen-Parallaxe . . . . 8″.80

Ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

An Änderungen gegenüber dem Vorjahr ist zu erwähnen, daß die Angaben über die Mondsterne fortgelassen sind, in die scheinbaren Örter der Polsterne der Betrag der kleinen Nutationsglieder nicht hineingezogen, sondern gesondert beigefügt ist, sowie daß den am Schluß folgenden umgearbeiteten „Erläuterungen zum Gebrauch des Jahrbuchs“ eine kurze Erklärung der Hauptbegriffe der sphärischen Astronomie vorausgeschickt ist.

Berichtigungen.

Jahrbuch 1912.

Seite 71 Okt. 8 *U* Mittlere Zeit lies $10^h\ 28^m.0$ anstatt $10^h\ 8^m.0$
Seite 333 ζ^2 Scorpii AR. Dez. 6—36 lies $24^s.86$ $25^s.06$ $25^s.32$ $25^s.64$
Seite 472 Göttingen Geoz. Breite lies $+51^\circ\ 20'\ 34''.9$ anstatt $34''.6$
desgl. in den früheren Jahrgängen.

Jahrbuch 1913.

Seite 166 Nr. 698 ζ Pavonis Dekl. lies $-71^\circ\ 30'\ 15''.40$ anstatt $+$
Seite 247 μ Ceti AR. Dez. 36 lies $18^s.28$ anstatt $18^s.48$
Seite 260 9 Camelop. tg δ lies $+2.267$ anstatt $+1.267$
Seite 269 ξ Canis maj. lies ζ Canis maj. von Jahrgang 1908 an.

Inhalt.

Astronomische Zeichen und Abkürzungen.

Bezeichnung der Wochentage.

☉ Sonntag.
☾ Montag.
♂ Dienstag.
☿ Mittwoch.
♃ Donnerstag.
♀ Freitag.
♄ Sonnabend.

Adspekten.

☌ Konjunktion.
□ Quadratur.
☍ Opposition.

Mondphasen.

● Neumond.
◐ Erstes Viertel.
○ Vollmond.
◑ Letztes Viertel.

☊ Aufsteigender }
☋ Niedersteigender } Knoten.

Zeichen des Tierkreises und der Himmelskörper.

♈ Widder . . .	0 Grad.	
♉ Stier	30 »	☉ Sonne.
♊ Zwillinge . .	60 »	☾ Mond.
♋ Krebs	90 »	☿ Mercur.
♌ Löwe	120 »	♀ Venus.
♍ Jungfrau . .	150 »	♁ Erde.
♎ Waage . . .	180 »	♂ Mars.
♏ Skorpion . .	210 »	♃ Jupiter.
♐ Schütze . . .	240 »	♄ Saturn.
♑ Steinbock . .	270 »	⛢ Uranus.
♒ Wassermann	300 »	♆ Neptun.
♓ Fische . . .	330 »	

Zeit- und Festrechnung 1913.

Das Jahr 1913 entspricht dem
Jahr 6626 der Julianischen Periode und dem
Jahr 7421 — 7422 der Byzantinischen Äre.

	Gregorianischer oder Neuer Kalender.	Julianischer oder Alter Kalender.
Goldene Zahl	14	14
Epakten	XXII	IV
Sonnenzirkel	18	18
Römer Zinszahl	11	11
Sonntagsbuchstab	E	F
Septuagesima	Jan. 19	Febr. 10
Aschermittwoch	Febr. 5	Febr. 27
I. Quatember	Febr. 12	März 6
Ostersonntag	März 23	April 14
Himmelfahrt	Mai 1	Mai 23
Pfingstsonntag	Mai 11	Juni 2
II. Quatember	Mai 14	Juni 5
III. Quatember	Sept. 17	Sept. 18
I. Advent	Nov. 30	Dez. 1
IV. Quatember	Dez. 17	Dez. 18

Kalender der Mohammedaner.

1331 (Gemeinjahr)		
Safar 1	1913	Jan. 10
Rebî-el-awwel 1	»	Febr. 8
Rebî-el-accher 1	»	März 10
Dschemâdi-el-awwel 1	»	April 8
Dschemâdi-el-accher 1	»	Mai 8
Redscheb 1	»	Juni 6
Schabân 1	»	Juli 6
Ramadân 1	»	Aug. 4
Schewwâl 1	»	Sept. 3
Dsû 'l-kade 1	»	Okt. 2
Dsû 'l-hedsche 1	»	Nov. 1
1332 (Gemeinjahr)		
Moharrem 1	»	Nov. 30
Safar 1	»	Dez. 30

Kalender der Juden.

5673	Schebat	1	. . . .	1913	Jan.	9
	Adar	1	. . . .	»	Febr.	8
		14	Klein Purim	»		21
	Veadar	1	. . . .	»	März	10
		11	Fasten - Esther	»		20
		14	Purim	»		23
		15	Schuschan - Purim	»		24
	Nisan	1	. . . .	»	April	8
		15	Passah - Anfang*	»		22
		16	Zweites Fest*	»		23
		21	Siebentes Fest*	»		28
		22	Achtes Fest*	»		29
	Ijar	1	. . . .	»	Mai	8
		18	Lag - B'omer	»		25
	Sivan	1	. . . .	»	Juni	6
		6	Wochenfest*	»		11
		7	Zweites Fest*	»		12
	Thamuz	1	. . . .	»	Juli	6
		17	Fasten. Tempeleroberung	»		22
	Ab	1	. . . .	»	Aug.	4
		9	Fasten. Tempelverbrennung . . .	»		12
	Elul	1	. . . .	»	Sept.	3
5674	Ordentliches Gemeinjahr					
	Tischri	1	Neujahrsfest*	»	Okt.	2
		2	Zweites Fest*	»		3
		4	Fasten - Gedaljah	»		5
		10	Versöhnungsfest*	»		11
		15	Laubhüttenfest*	»		16
		16	Zweites Fest*	»		17
		21	Palmenfest	»		22
		22	Versammlung oder Laubhüttenende* .	»		23
		23	Gesetzesfreude*	»		24
	Marcheschwan	1	. . . .	»	Nov.	1
	Kislev	1	. . . .	»		30
		25	Tempelweihe	»	Dez.	24
	Tebet	1	. . . .	»		30

Die mit * bezeichneten Festtage werden streng gefeiert.

1913	Schiefe der Ekliptik mittlere	wahre	Präzession in Länge	Nutation in Länge	Aberration der Sonne	Parallaxe der Sonne
	23°					
	′ ″	′ ″	″	″	″	″
Jan. 0	27 2.17	27 10.68	— 0.07	—1.85	20.82	8.95
10	2.16	10.77	+ 1.31	1.28	20.82	8.95
20	2.14	10.92	2.68	0.81	20.80	8.94
30	2.13	11.10	4.06	0.48	20.78	8.93
Febr. 9	2.12	11.29	5.43	0.30	20.74	8.92
19	27 2.11	27 11.47	+ 6.81	—0.28	20.70	8.90
März 1	2.09	11.61	8.19	0.40	20.65	8.88
11	2.08	11.70	9.56	0.62	20.60	8.86
21	2.07	11.72	10.94	0.90	20.54	8.83
31	2.06	11.68	12.31	1.17	20.48	8.81
April 10	27 2.04	27 11.58	+13.69	—1.39	20.42	8.78
20	2.03	11.43	15.07	1.53	20.36	8.76
30	2.02	11.24	16.44	1.54	20.31	8.73
Mai 10	2.00	11.05	17.82	1.40	20.26	8.71
20	1.99	10.87	19.19	1.13	20.22	8.69
30	27 1.98	27 10.71	+20.57	—0.74	20.19	8.68
Juni 9	1.97	10.59	21.95	—0.26	20.16	8.67
19	1.95	10.53	23.32	+0.28	20.14	8.66
29	1.94	10.53	24.70	0.83	20.13	8.66
Juli 9	1.93	10.59	26.07	1.35	20.13	8.66
19	27 1.91	27 10.69	+27.45	+1.79	20.14	8.66
29	1.90	10.83	28.83	2.12	20.16	8.67
Aug. 8	1.89	11.00	30.20	2.32	20.19	8.68
18	1.88	11.16	31.58	2.39	20.23	8.70
28	1.86	11.30	32.95	2.32	20.27	8.72
Sept. 7	27 1.85	27 11.40	+34.33	+2.14	20.32	8.74
17	1.84	11.45	35.71	1.88	20.37	8.76
27	1.82	11.43	37.08	1.60	20.43	8.78
Okt. 7	1.81	11.35	38.46	1.34	20.49	8.81
17	1.80	11.21	39.83	1.15	20.55	8.83
27	27 1.79	27 11.03	+41.21	+1.07	20.61	8.86
Nov. 6	1.77	10.82	42.59	1.14	20.66	8.88
16	1.76	10.60	43.96	1.37	20.71	8.90
26	1.75	10.40	45.34	1.74	20.75	8.92
Dez. 6	1.74	10.24	46.71	2.25	20.78	8.93
16	27 1.72	27 10.14	+48.09	+2.84	20.80	8.94
26	1.71	10.10	49.47	3.47	20.82	8.95
36	1.70	10.14	50.84	4.08	20.82	8.95

Mittlere Schiefe der Ekliptik für 1910.0 = 23° 27′ 3″.58.

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M.Zt. — W.Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	0	Di	+ 3 3.73	18 41 5.50	4 25.23	—23 7 0.4	4 34.2	141.93	16 15.99
	1	Mi	3 32.40	18 45 30.73	4 24.93	23 2 26.2	5 1.9	141.85	16 15.99
	2	Do	4 0.77	18 49 55.66	4 24.61	22 57 24.3	5 29.3	141.76	16 15.99
	3	Fr	4 28.82	18 54 20.27	4 24.25	22 51 55.0	5 56.7	141.66	16 15.98
	4	Sa	4 56.51	18 58 44.52	4 23.86	22 45 58.3	6 23.9	141.55	16 15.97
	5	St	+ 5 23.81	19 3 8.38	4 23.43	—22 39 34.4	6 50.9	141.44	16 15.95
	6	Mo	5 50.68	19 7 31.81	4 22.97	22 32 43.5	7 17.6	141.32	16 15.93
	7	Di	6 17.09	19 11 54.78	4 22.49	22 25 25.9	7 44.2	141.19	16 15.91
	8	Mi	6 43.02	19 16 17.27	4 21.97	22 17 41.7	8 10.5	141.06	16 15.88
	9	Do	7 8.44	19 20 39.24	4 21.42	22 9 31.2	8 36.6	140.92	16 15.85
	10	Fr	+ 7 33.30	19 25 0.66	4 20.84	—22 0 54.6	9 2.3	140.77	16 15.81
	11	Sa	7 57.58	19 29 21.50	4 20.25	21 51 52.3	9 27.9	140.61	16 15.77
	12	St	8 21.27	19 33 41.75	4 19.62	21 42 24.4	9 53.2	140.45	16 15.73
	13	Mo	8 44.33	19 38 1.37	4 18.97	21 32 31.2	10 18.1	140.28	16 15.68
	14	Di	9 6.74	19 42 20.34	4 18.30	21 22 13.1	10 42.7	140.10	16 15.63
	15	Mi	+ 9 28.49	19 46 38.64	4 17.62	—21 11 30.4	11 7.0	139.92	16 15.57
	16	Do	9 49.55	19 50 56.26	4 16.90	21 0 23.4	11 31.0	139.74	16 15.50
	17	Fr	10 9.90	19 55 13.16	4 16.18	20 48 52.4	11 54.7	139.55	16 15.44
	18	Sa	10 29.52	19 59 29.34	4 15.45	20 36 57.7	12 18.0	139.36	16 15.37
	19	St	10 48.40	20 3 44.79	4 14.69	20 24 39.7	12 41.0	139.16	16 15.29
	20	Mo	+11 6.53	20 7 59.48	4 13.93	—20 11 58.7	13 3.7	138.96	16 15.20
	21	Di	11 23.91	20 12 13.41	4 13.17	19 58 55.0	13 26.0	138.75	16 15.11
	22	Mi	11 40.52	20 16 26.58	4 12.40	19 45 29.0	13 47.9	138.54	16 15.01
	23	Do	11 56.36	20 20 38.98	4 11.62	19 31 41.1	14 9.5	138.33	16 14.91
	24	Fr	12 11.42	20 24 50.60	4 10.84	19 17 31.6	14 30.9	138.11	16 14.80
	25	Sa	+12 25.71	20 29 1.44	4 10.06	—19 3 0.7	14 51.8	137.89	16 14.69
	26	St	12 39.21	20 33 11.50	4 9.27	18 48 8.9	15 12.4	137.67	16 14.57
	27	Mo	12 51.92	20 37 20.77	4 8.48	18 32 56.5	15 32.6	137.44	16 14.44
	28	Di	13 3.84	20 41 29.25	4 7.68	18 17 23.9	15 52.5	137.21	16 14.31
	29	Mi	13 14.97	20 45 36.93	4 6.89	18 1 31.4	16 11.9	136.98	16 14.17
	30	Do	+13 25.30	20 49 43.82	4 6.09	—17 45 19.5	16 31.0	136.75	16 14.03
	31	Fr	13 34.83	20 53 49.91	4 5.29	17 28 48.5	16 49.6	136.52	16 13.88
Febr.	1	Sa	13 43.56	20 57 55.20	4 4.47	17 11 58.9	17 7.9	136.29	16 13.73
	2	St	13 51.48	21 1 59.67	4 3.66	16 54 51.0	17 25.8	136.06	16 13.58
	3	Mo	13 58.59	21 6 3.33	4 2.85	16 37 25.2	17 43.2	135.83	16 13.43
	4	Di	+14 4.88	21 10 6.18	4 2.04	—16 19 42.0	18 0.2	135.60	16 13.27
	5	Mi	14 10.36	21 14 8.22	4 1.23	16 1 41.8	18 16.8	135.37	16 13.11
	6	Do	14 15.03	21 18 9.45	4 0.42	15 43 25.0	18 32.9	135.14	16 12.94
	7	Fr	14 18.89	21 22 9.87	3 59.61	15 24 52.1	18 48.6	134.92	16 12.77
	8	Sa	14 21.95	21 26 9.48		15 6 3.5		134.69	16 12.60

Mittlerer Berliner Mittag.

Monat	Monatstag	Jahrestag	Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
Jan.	0	0	18h 38m 1.77s	279° 26′ 47.37″	61′ 10.05″	−0.04″	9.9926578	−3	−3	+8
	1	1	18 41 58.33	280 27 57.42	61 10.36	−0.17	9.9926575	18	−9	+6
	2	2	18 45 54.89	281 29 7.78	61 10.60	−0.29	9.9926593	37	−13	+2
	3	3	18 49 51.45	282 30 18.38	61 10.77	−0.39	9.9926630	55	−13	−2
	4	4	18 53 48.01	283 31 29.15	61 10.87	−0.46	9.9926685	73	−9	−6
	5	5	18 57 44.57	284 32 40.02	61 10.86	−0.51	9.9926758	91	−3	−8
	6	6	19 1 41.13	285 33 50.88	61 10.75	−0.54	9.9926849	108	+5	−9
	7	7	19 5 37.69	286 35 1.63	61 10.54	−0.53	9.9926957	125	+13	−8
	8	8	19 9 34.25	287 36 12.17	61 10.24	−0.50	9.9927082	142	+19	−5
	9	9	19 13 30.80	288 37 22.41	61 9.86	−0.45	9.9927224	159	+22	−1
	10	10	19 17 27.36	289 38 32.27	61 9.41	−0.38	9.9927383	178	+20	+3
	11	11	19 21 23.92	290 39 41.68	61 8.89	−0.29	9.9927561	196	+14	+6
	12	12	19 25 20.48	291 40 50.57	61 8.30	−0.18	9.9927757	215	+4	+8
	13	13	19 29 17.04	292 41 58.87	61 7.64	−0.06	9.9927972	236	−6	+9
	14	14	19 33 13.60	293 43 6.51	61 6.90	+0.06	9.9928208	256	−16	+7
	15	15	19 37 10.15	294 44 13.41	61 6.12	+0.19	9.9928464	278	−23	+5
	16	16	19 41 6.71	295 45 19.53	61 5.31	+0.31	9.9928742	300	−27	+1
	17	17	19 45 3.27	296 46 24.84	61 4.46	+0.41	9.9929042	324	−26	−3
	18	18	19 48 59.83	297 47 29.30	61 3.59	+0.48	9.9929366	350	−21	−6
	19	19	19 52 56.39	298 48 32.89	61 2.72	+0.53	9.9929716	377	−12	−9
	20	20	19 56 52.95	299 49 35.61	61 1.86	+0.55	9.9930093	403	−2	−9
	21	21	20 0 49.50	300 50 37.47	61 1.06	+0.54	9.9930496	431	+8	−7
	22	22	20 4 46.06	301 51 38.53	61 0.30	+0.50	9.9930927	460	+15	−4
	23	23	20 8 42.62	302 52 38.83	60 59.59	+0.43	9.9931387	487	+19	0
	24	24	20 12 39.18	303 53 38.42	60 58.92	+0.33	9.9931874	514	+18	+4
	25	25	20 16 35.73	304 54 37.34	60 58.27	+0.21	9.9932388	540	+14	+7
	26	26	20 20 32.29	305 55 35.61	60 57.62	+0.09	9.9932928	565	+7	+9
	27	27	20 24 28.85	306 56 33.23	60 56.97	−0.04	9.9933493	588	−1	+9
	28	28	20 28 25.41	307 57 30.20	60 56.31	−0.17	9.9934081	609	−8	+7
	29	29	20 32 21.96	308 58 26.51	60 55.63	−0.29	9.9934690	629	−13	+3
	30	30	20 36 18.52	309 59 22.14	60 54.90	−0.40	9.9935319	647	−13	−1
	31	31	20 40 15.08	311 0 17.04	60 54.10	−0.49	9.9935966	664	−11	−4
Febr.	1	32	20 44 11.64	312 1 11.14	60 53.23	−0.55	9.9936630	680	−5	−7
	2	33	20 48 8.19	313 2 4.37	60 52.28	−0.58	9.9937310	695	+3	−9
	3	34	20 52 4.75	314 2 56.65	60 51.25	−0.57	9.9938005	708	+12	−8
	4	35	20 56 1.30	315 3 47.90	60 50.14	−0.54	9.9938713	722	+19	−6
	5	36	20 59 57.86	316 4 38.04	60 48.97	−0.48	9.9939435	735	+21	−3
	6	37	21 3 54.42	317 5 27.01	60 47.72	−0.40	9.9940170	748	+21	+1
	7	38	21 7 50.97	318 6 14.73	60 46.39	−0.31	9.9940918	761	+16	+5
	8	39	21 11 47.53	319 7 1.12		−0.20	9.9941679		+8	+8

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr.	7	Fr	+14 18.89	21 22 9.87	3 59.61	−15 24 52.1	18 48.6	134.92	16 12.77
	8	Sa	14 21.95	21 26 9.48	3 58.81	15 6 3.5	19 3.9	134.69	16 12.60
	9	St	14 24.21	21 30 8.29	3 58.01	14 46 59.6	19 18.7	134.47	16 12.43
	10	Mo	14 25.66	21 34 6.30	3 57.21	14 27 40.9	19 33.1	134.25	16 12.25
	11	Di	14 26.31	21 38 3.51	3 56.42	14 8 7.8	19 47.1	134.03	16 12.07
	12	Mi	+14 26.18	21 41 59.93	3 55.65	−13 48 20.7	20 0.6	133.81	16 11.89
	13	Do	14 25.27	21 45 55.58	3 54.88	13 28 20.1	20 13.6	133.59	16 11.71
	14	Fr	14 23.59	21 49 50.46	3 54.11	13 8 6.5	20 26.3	133.38	16 11.52
	15	Sa	14 21.15	21 53 44.57	3 53.37	12 47 40.2	20 38.6	133.17	16 11.33
	16	St	14 17.96	21 57 37.94	3 52.63	12 27 1.6	20 50.4	132.96	16 11.13
	17	Mo	+14 14.04	22 1 30.57	3 51.91	−12 6 11.2	21 1.8	132.76	16 10.93
	18	Di	14 9.40	22 5 22.48	3 51.20	11 45 9.4	21 12.8	132.56	16 10.73
	19	Mi	14 4.05	22 9 13.68	3 50.52	11 23 56.6	21 23.4	132.36	16 10.52
	20	Do	13 58.01	22 13 4.20	3 49.85	11 2 33.2	21 33.7	132.17	16 10.31
	21	Fr	13 51.30	22 16 54.05	3 49.20	10 40 59.5	21 43.6	131.98	16 10.09
	22	Sa	+13 43.95	22 20 43.25	3 48.58	−10 19 15.9	21 53.0	131.79	16 9.87
	23	St	13 35.97	22 24 31.83	3 47.97	9 57 22.9	22 2.2	131.61	16 9.64
	24	Mo	13 27.39	22 28 19.80	3 47.38	9 35 20.7	22 11.0	131.43	16 9.41
	25	Di	13 18.22	22 32 7.18	3 46.81	9 13 9.7	22 19.3	131.26	16 9.17
	26	Mi	13 8.48	22 35 53.99	3 46.26	8 50 50.4	22 27.3	131.09	16 8.93
	27	Do	+12 58.18	22 39 40.25	3 45.73	− 8 28 23.1	22 35.0	130.92	16 8.69
	28	Fr	12 47.35	22 43 25.98	3 45.22	8 5 48.1	22 42.1	130.76	16 8.45
März	1	Sa	12 36.01	22 47 11.20	3 44.71	7 43 6.0	22 48.9	130.61	16 8.20
	2	St	12 24.17	22 50 55.91	3 44.23	7 20 17.1	22 55.3	130.46	16 7.95
	3	Mo	12 11.85	22 54 40.14	3 43.76	6 57 21.8	23 1.2	130.32	16 7.70
	4	Di	+11 59.06	22 58 23.90	3 43.31	− 6 34 20.6	23 6.9	130.18	16 7.45
	5	Mi	11 45.81	23 2 7.21	3 42.87	6 11 13.7	23 12.0	130.05	16 7.20
	6	Do	11 32.13	23 5 50.08	3 42.46	5 48 1.7	23 16.8	129.92	16 6.95
	7	Fr	11 18.03	23 9 32.54	3 42.05	5 24 44.9	23 21.1	129.80	16 6.69
	8	Sa	11 3.53	23 13 14.59	3 41.67	5 1 23.8	23 25.0	129.69	16 6.43
	9	St	+10 48.65	23 16 56.26	3 41.31	− 4 37 58.8	23 28.6	129.58	16 6.18
	10	Mo	10 33.40	23 20 37.57	3 40.95	4 14 30.2	23 31.7	129.48	16 5.92
	11	Di	10 17.80	23 24 18.52	3 40.62	3 50 58.5	23 34.4	129.38	16 5.66
	12	Mi	10 1.86	23 27 59.14	3 40.30	3 27 24.1	23 36.7	129.29	16 5.41
	13	Do	9 45.61	23 31 39.44	3 40.01	3 3 47.4	23 38.6	129.20	16 5.15
	14	Fr	+ 9 29.06	23 35 19.45	3 39.72	− 2 40 8.8	23 40.2	129.12	16 4.89
	15	Sa	9 12.23	23 38 59.17	3 39.47	2 16 28.6	23 41.4	129.05	16 4.63
	16	St	8 55.14	23 42 38.64	3 39.23	1 52 47.2	23 42.1	128.98	16 4.37
	17	Mo	8 37.82	23 46 17.87	3 39.01	1 29 5.1	23 42.5	128.92	16 4.10
	18	Di	8 20.28	23 49 56.88		1 5 22.6		128.87	16 3.84

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
		h m s	° ′ ″	′ ″	″				
Febr. 7	38	21 7 50.97	318 6 14.73	60 46.39	−0.31	9.9940918	761	+16	+5
8	39	21 11 47.53	319 7 1.12	60 44.98	−0.20	9.9941679	773	+ 8	+8
9	40	21 15 44.08	320 7 46.10	60 43.49	−0.08	9.9942452	786	− 2	+9
10	41	21 19 40.64	321 8 29.59	60 41.92	+0.05	9.9943238	799	−13	+8
11	42	21 23 37.20	322 9 11.51	60 40.30	+0.18	9.9944037	813	−21	+6
12	43	21 27 33.75	323 9 51.81	60 38.63	+0.30	9.9944850	827	−26	+2
13	44	21 31 30.31	324 10 30.44	60 36.90	+0.40	9.9945677	843	−27	−2
14	45	21 35 26.86	325 11 7.34	60 35.13	+0.48	9.9946520	859	−23	−6
15	46	21 39 23.42	326 11 42.47	60 33.34	+0.53	9.9947379	875	−15	−8
16	47	21 43 19.97	327 12 15.81	60 31.53	+0.55	9.9948254	894	− 5	−9
17	48	21 47 16.53	328 12 47.34	60 29.73	+0.55	9.9949148	914	+ 4	−8
18	49	21 51 13.08	329 13 17.07	60 27.97	+0.52	9.9950062	934	+13	−5
19	50	21 55 9.64	330 13 45.04	60 26.25	+0.45	9.9950996	954	+18	−1
20	51	21 59 6.19	331 14 11.29	60 24.57	+0.35	9.9951950	975	+19	+3
21	52	22 3 2.75	332 14 35.86	60 22.95	+0.23	9.9952925	996	+16	+6
22	53	22 6 59.30	333 14 58.81	60 21.40	+0.10	9.9953921	1017	+ 9	+8
23	54	22 10 55.86	334 15 20.21	60 19.90	−0.04	9.9954938	1036	+ 2	+9
24	55	22 14 52.41	335 15 40.11	60 18.43	−0.17	9.9955974	1053	− 6	+7
25	56	22 18 48.97	336 15 58.54	60 16.98	−0.30	9.9957027	1068	−11	+5
26	57	22 22 45.52	337 16 15.52	60 15.52	−0.42	9.9958095	1082	−14	+1
27	58	22 26 42.08	338 16 31.04	60 14.05	−0.50	9.9959177	1095	−12	−3
28	59	22 30 38.63	339 16 45.09	60 12.55	−0.55	9.9960272	1105	− 7	−7
März 1	60	22 34 35.19	340 16 57.64	60 11.01	−0.58	9.9961377	1115	+ 1	−9
2	61	22 38 31.74	341 17 8.65	60 9.42	−0.59	9.9962492	1123	+10	−9
3	62	22 42 28.29	342 17 18.07	60 7.78	−0.56	9.9963615	1130	+17	−7
4	63	22 46 24.85	343 17 25.85	60 6.09	−0.52	9.9964745	1135	+21	−4
5	64	22 50 21.40	344 17 31.94	60 4.35	−0.45	9.9965880	1140	+22	0
6	65	22 54 17.95	345 17 36.29	60 2.54	−0.36	9.9967020	1145	+18	+4
7	66	22 58 14.51	346 17 38.83	60 0.67	−0.24	9.9968165	1149	+11	+7
8	67	23 2 11.06	347 17 39.50	59 58.74	−0.11	9.9969314	1151	+ 1	+7
9	68	23 6 7.62	348 17 38.24	59 56.74	+0.03	9.9970465	1155	− 9	+9
10	69	23 10 4.17	349 17 34.98	59 54.69	+0.16	9.9971620	1158	−18	+7
11	70	23 14 0.72	350 17 29.67	59 52.57	+0.27	9.9972778	1161	−25	+3
12	71	23 17 57.28	351 17 22.24	59 50.40	+0.37	9.9973939	1164	−27	−1
13	72	23 21 53.83	352 17 12.64	59 48.18	+0.46	9.9975103	1168	−25	−5
14	73	23 25 50.39	353 17 0.82	59 45.92	+0.53	9.9976271	1172	−18	−7
15	74	23 29 46.94	354 16 46.74	59 43.63	+0.57	9.9977443	1179	− 8	−9
16	75	23 33 43.49	355 16 30.37	59 41.33	+0.58	9.9978622	1185	+ 2	−8
17	76	23 37 40.05	356 16 11.70	59 39.02	+0.56	9.9979807	1192	+11	−6
18	77	23 41 36.60	357 15 50.72		+0.49	9.9980999		+16	−3

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 17	Mo	+8 37.82	23 46 17.87	3 39.01	−1 29 5.1	23 42.5	128.92	16 4.10
18	Di	8 20.28	23 49 56.88	3 38.81	1 5 22.6	23 42.6	128.87	16 3.84
19	Mi	8 2.54	23 53 35.69	3 38.64	0 41 40.0	23 42.3	128.82	16 3.57
20	Do	7 44.62	23 57 14.33	3 38.49	−0 17 57.7	23 41.7	128.77	16 3.30
21	Fr	7 26.56	0 0 52.82	3 38.37	+0 5 44.0	23 40.7	128.73	16 3.03
22	Sa	+7 8.37	0 4 31.19	3 38.27	+0 29 24.7	23 39.5	128.70	16 2.76
23	St	6 50.09	0 8 9.46	3 38.19	0 53 4.2	23 37.9	128.68	16 2.48
24	Mo	6 31.73	0 11 47.65	3 38.15	1 16 42.1	23 36.0	128.66	16 2.21
25	Di	6 13.32	0 15 25.80	3 38.12	1 40 18.1	23 33.8	128.64	16 1.93
26	Mi	5 54.89	0 19 3.92	3 38.12	2 3 51.9	23 31.2	128.63	16 1.65
27	Do	+5 36.45	0 22 42.04	3 38.13	+2 27 23.1	23 28.4	128.63	16 1.36
28	Fr	5 18.03	0 26 20.17	3 38.17	2 50 51.5	23 25.1	128.63	16 1.08
29	Sa	4 59.65	0 29 58.34	3 38.23	3 14 16.6	23 21.5	128.64	16 0.80
30	St	4 41.33	0 33 36.57	3 38.31	3 37 38.1	23 17.5	128.66	16 0.52
31	Mo	4 23.08	0 37 14.88	3 38.40	4 0 55.6	23 13.2	128.68	16 0.23
April 1	Di	+4 4.93	0 40 53.28	3 38.52	+4 24 8.8	23 8.5	128.70	15 59.95
2	Mi	3 46.89	0 44 31.80	3 38.65	4 47 17.3	23 3.5	128.73	15 59.67
3	Do	3 28.99	0 48 10.45	3 38.80	5 10 20.8	22 58.0	128.77	15 59.39
4	Fr	3 11.24	0 51 49.25	3 38.96	5 33 18.8	22 52.3	128.81	15 59.11
5	Sa	2 53.65	0 55 28.21	3 39.14	5 56 11.1	22 46.1	128.86	15 58.83
6	St	+2 36.23	0 59 7.35	3 39.34	+6 18 57.2	22 39.6	128.91	15 58.55
7	Mo	2 19.01	1 2 46.69	3 39.55	6 41 36.8	22 32.8	128.97	15 58.28
8	Di	2 2.00	1 6 26.24	3 39.77	7 4 9.6	22 25.5	129.04	15 58.01
9	Mi	1 45.22	1 10 6.01	3 40.02	7 26 35.1	22 17.9	129.11	15 57.74
10	Do	1 28.69	1 13 46.03	3 40.27	7 48 53.0	22 9.9	129.19	15 57.47
11	Fr	+1 12.41	1 17 26.30	3 40.53	+8 11 2.9	22 1.6	129.27	15 57.20
12	Sa	0 56.39	1 21 6.83	3 40.82	8 33 4.5	21 52.8	129.36	15 56.93
13	St	0 40.65	1 24 47.65	3 41.12	8 54 57.3	21 43.8	129.45	15 56.67
14	Mo	0 25.21	1 28 28.77	3 41.43	9 16 41.1	21 34.5	129.54	15 56.41
15	Di	+0 10.09	1 32 10.20	3 41.76	9 38 15.6	21 24.8	129.64	15 56.15
16	Mi	−0 4.70	1 35 51.96	3 42.10	+9 59 40.4	21 14.8	129.75	15 55.89
17	Do	0 19.15	1 39 34.06	3 42.46	10 20 55.2	21 4.4	129.86	15 55.63
18	Fr	0 33.25	1 43 16.52	3 42.84	10 41 59.6	20 53.8	129.97	15 55.37
19	Sa	0 46.97	1 46 59.36	3 43.25	11 2 53.4	20 42.9	130.09	15 55.11
20	St	1 0.28	1 50 42.61	3 43.66	11 23 36.3	20 31.7	130.21	15 54.85
21	Mo	−1 13.17	1 54 26.27	3 44.09	+11 44 8.0	20 20.1	130.33	15 54.59
22	Di	1 25.63	1 58 10.36	3 44.54	12 4 28.1	20 8.3	130.46	15 54.33
23	Mi	1 37.64	2 1 54.90	3 45.01	12 24 36.4	19 56.2	130.59	15 54.07
24	Do	1 49.19	2 5 39.91	3 45.49	12 44 32.6	19 43.8	130.73	15 53.82
25	Fr	2 0.26	2 9 25.40		13 4 16.4		130.87	15 53.56

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
		h m s	° ′ ″	′ ″	″				
März 17	76	23 37 40.05	356 16 11.70	59 39.02	+0.56	9.9979807	1192	+11	−6
18	77	23 41 36.60	357 15 50.72	59 36.74	+0.49	9.9980999	1201	+16	−3
19	78	23 45 33.15	358 15 27.46	59 34.50	+0.40	9.9982200	1211	+19	+1
20	79	23 49 29.71	359 15 1.96	59 32.31	+0.28	9.9983411	1222	+17	+5
21	80	23 53 26.26	0 14 34.27	59 30.20	+0.15	9.9984633	1232	+12	+8
22	81	23 57 22.82	1 14 4.47	59 28.17	+0.01	9.9985865	1242	+ 4	+9
23	82	0 1 19.37	2 13 32.64	59 26.21	−0.13	9.9987107	1251	− 4	+8
24	83	0 5 15.92	3 12 58.85	59 24.31	−0.26	9.9988358	1260	−11	+6
25	84	0 9 12.48	4 12 23.16	59 22.46	−0.38	9.9989618	1268	−14	+2
26	85	0 13 9.03	5 11 45.62	59 20.66	−0.48	9.9990886	1273	−13	−2
27	86	0 17 5.58	6 11 6.28	59 18.88	−0.56	9.9992159	1277	− 9	−6
28	87	0 21 2.14	7 10 25.16	59 17.11	−0.61	9.9993436	1280	− 1	−8
29	88	0 24 58.69	8 9 42.27	59 15.34	−0.62	9.9994716	1280	+ 7	−9
30	89	0 28 55.25	9 8 57.61	59 13.56	−0.60	9.9995996	1280	+15	−8
31	90	0 32 51.80	10 8 11.17	59 11.75	−0.55	9.9997276	1278	+21	−5
April 1	91	0 36 48.35	11 7 22.92	59 9.92	−0.49	9.9998554	1274	+23	−1
2	92	0 40 44.91	12 6 32.84	59 8.05	−0.40	9.9999828	1270	+20	+3
3	93	0 44 41.46	13 5 40.89	59 6.15	−0.29	0.0001098	1265	+15	+6
4	94	0 48 38.01	14 4 47.04	59 4.23	−0.18	0.0002363	1259	+ 5	+8
5	95	0 52 34.57	15 3 51.27	59 2.26	−0.07	0.0003622	1252	− 5	+9
6	96	0 56 31.12	16 2 53.53	59 0.25	+0.06	0.0004874	1244	−16	+7
7	97	1 0 27.68	17 1 53.78	58 58.19	+0.18	0.0006118	1235	−24	+5
8	98	1 4 24.23	18 0 51.97	58 56.07	+0.29	0.0007353	1227	−26	+1
9	99	1 8 20.79	18 59 48.04	58 53.90	+0.38	0.0008580	1220	−26	−3
10	100	1 12 17.34	19 58 41.94	58 51.69	+0.46	0.0009800	1211	−20	−7
11	101	1 16 13.89	20 57 33.63	58 49.44	+0.51	0.0011011	1204	−11	−9
12	102	1 20 10.45	21 56 23.07	58 47.17	+0.53	0.0012215	1197	− 2	−9
13	103	1 24 7.00	22 55 10.24	58 44.89	+0.50	0.0013412	1191	+ 7	−7
14	104	1 28 3.56	23 53 55.13	58 42.61	+0.44	0.0014603	1186	+14	−4
15	105	1 32 0.11	24 52 37.74	58 40.33	+0.36	0.0015789	1183	+18	0
16	106	1 35 56.66	25 51 18.07	58 38.09	+0.25	0.0016972	1181	+17	+4
17	107	1 39 53.22	26 49 56.16	58 35.91	+0.13	0.0018153	1179	+13	+7
18	108	1 43 49.77	27 48 32.07	58 33.81	−0.01	0.0019332	1179	+ 6	+9
19	109	1 47 46.33	28 47 5.88	58 31.78	−0.15	0.0020511	1178	− 1	+9
20	110	1 51 42.88	29 45 37.66	58 29.84	−0.30	0.0021689	1178	− 9	+7
21	111	1 55 39.44	30 44 7.50	58 27.98	−0.43	0.0022867	1177	−13	+3
22	112	1 59 35.99	31 42 35.48	58 26.20	−0.54	0.0024044	1175	−14	−1
23	113	2 3 32.55	32 41 1.68	58 24.50	−0.62	0.0025219	1172	−11	−5
24	114	2 7 29.10	33 39 26.18	58 22.86	−0.68	0.0026391	1167	− 4	−7
25	115	2 11 25.66	34 37 49.04		−0.71	0.0027558		+ 4	−9

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
April	24	Do	—1 49.19	2 5 39.91	3 45.49	+12 44 32.6	19 43.8	130.73	15 53.82
	25	Fr	2 0.26	2 9 25.40	3 45.99	13 4 16.4	19 31.0	130.87	15 53.56
	26	Sa	2 10.83	2 13 11.39	3 46.50	13 23 47.4	19 17.9	131.01	15 53.30
	27	St	2 20.89	2 16 57.89	3 47.01	13 43 5.3	19 4.5	131.15	15 53.05
	28	Mo	2 30.43	2 20 44.90	3 47.54	14 2 9.8	18 50.8	131.30	15 52.80
	29	Di	—2 39.45	2 24 32.44	3 48.07	+14 21 0.6	18 36.7	131.45	15 52.55
	30	Mi	2 47.93	2 28 20.51	3 48.61	14 39 37.3	18 22.4	131.60	15 52.30
Mai	1	Do	2 55.87	2 32 9.12	3 49.17	14 57 59.7	18 7.6	131.75	15 52.06
	2	Fr	3 3.26	2 35 58.29	3 49.72	15 16 7.3	17 52.5	131.91	15 51.82
	3	Sa	3 10.09	2 39 48.01	3 50.28	15 33 59.8	17 37.1	132.06	15 51.58
	4	St	—3 16.37	2 43 38.29	3 50.84	+15 51 36.9	17 21.4	132.22	15 51.35
	5	Mo	3 22.09	2 47 29.13	3 51.41	16 8 58.3	17 5.4	132.38	15 51.12
	6	Di	3 27.24	2 51 20.54	3 51.97	16 26 3.7	16 49.0	132.54	15 50.89
	7	Mi	3 31.83	2 55 12.51	3 52.53	16 42 52.7	16 32.2	132.70	15 50.67
	8	Do	3 35.85	2 59 5.04	3 53.09	16 59 24.9	16 15.2	132.87	15 50.45
	9	Fr	—3 39.31	3 2 58.13	3 53.66	+17 15 40.1	15 57.8	133.03	15 50.23
	10	Sa	3 42.21	3 6 51.79	3 54.22	17 31 37.9	15 40.2	133.20	15 50.02
	11	St	3 44.55	3 10 46.01	3 54.77	17 47 18.1	15 22.2	133.36	15 49.82
	12	Mo	3 46.33	3 14 40.78	3 55.33	18 2 40.3	15 4.0	133.53	15 49.61
	13	Di	3 47.56	3 18 36.11	3 55.88	18 17 44.3	14 45.4	133.69	15 49.41
	14	Mi	—3 48.23	3 22 31.99	3 56.44	+18 32 29.7	14 26.6	133.86	15 49.22
	15	Do	3 48.35	3 26 28.43	3 56.99	18 46 56.3	14 7.6	134.02	15 49.02
	16	Fr	3 47.92	3 30 25.42	3 57.54	19 1 3.9	13 48.2	134.18	15 48.83
	17	Sa	3 46.94	3 34 22.96	3 58.08	19 14 52.1	13 28.6	134.34	15 48.64
	18	St	3 45.41	3 38 21.04	3 58.64	19 28 20.7	13 8.9	134.50	15 48.45
	19	Mo	—3 43.33	3 42 19.68	3 59.18	+19 41 29.6	12 48.8	134.66	15 48.27
	20	Di	3 40.70	3 46 18.86	3 59.73	19 54 18.4	12 28.5	134.81	15 48.08
	21	Mi	3 37.53	3 50 18.59	4 0.27	20 6 46.9	12 8.0	134.96	15 47.90
	22	Do	3 33.82	3 54 18.86	4 0.81	20 18 54.9	11 47.3	135.11	15 47.72
	23	Fr	3 29.57	3 58 19.67	4 1.35	20 30 42.2	11 26.2	135.26	15 47.55
	24	Sa	—3 24.78	4 2 21.02	4 1.87	+20 42 8.4	11 5.0	135.41	15 47.37
	25	St	3 19.47	4 6 22.89	4 2.39	20 53 13.4	10 43.6	135.55	15 47.20
	26	Mo	3 13.64	4 10 25.28	4 2.90	21 3 57.0	10 21.9	135.69	15 47.03
	27	Di	3 7.29	4 14 28.18	4 3.40	21 14 18.9	9 59.9	135.83	15 46.87
	28	Mi	3 0.45	4 18 31.58	4 3.89	21 24 18.8	9 37.8	135.96	15 46.71
	29	Do	—2 53.12	4 22 35.47	4 4.35	+21 33 56.6	9 15.4	136.09	15 46.55
	30	Fr	2 45.33	4 26 39.82	4 4.80	21 43 12.0	8 52.9	136.21	15 46.40
	31	Sa	2 37.08	4 30 44.62	4 5.25	21 52 4.9	8 30.2	136.33	15 46.25
Juni	1	St	2 28.39	4 34 49.87	4 5.67	22 0 35.1	8 7.1	136.45	15 46.10
	2	Mo	2 19.28	4 38 55.54		22 8 42.2		136.56	15 45.96

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit h m s	Mittleres Äqu. 1913.0 Länge ° ′ ″	Diff. ′ ″	Breite ″	Lg. Rad. v.	Diff.	Nut. in 0″.1 dλ	dε
April 24	114	2 7 29.10	33 39 26.18	58 22.86	−0.68	0.0026391	1167	− 4	−7
25	115	2 11 25.66	34 37 49.04	58 21.26	−0.71	0.0027558	1162	+ 4	−9
26	116	2 15 22.21	35 36 10.30	58 19.69	−0.71	0.0028720	1155	+13	−8
27	117	2 19 18.77	36 34 29.99	58 18.14	−0.69	0.0029875	1147	+20	−6
28	118	2 23 15.33	37 32 48.13	58 16.61	−0.63	0.0031022	1137	+22	−3
29	119	2 27 11.88	38 31 4.74	58 15.09	−0.54	0.0032159	1125	+22	+1
30	120	2 31 8.44	39 29 19.83	58 13.56	−0.44	0.0033284	1113	+17	+5
Mai 1	121	2 35 4.99	40 27 33.39	58 12.04	−0.34	0.0034397	1099	+ 9	+8
2	122	2 39 1.55	41 25 45.43	58 10.50	−0.22	0.0035496	1085	− 2	+9
3	123	2 42 58.10	42 23 55.93	58 8.94	−0.09	0.0036581	1069	−12	+8
4	124	2 46 54.66	43 22 4.87	58 7.36	+0.03	0.0037650	1052	−21	+6
5	125	2 50 51.22	44 20 12.23	58 5.74	+0.13	0.0038702	1035	−26	+2
6	126	2 54 47.77	45 18 17.97	58 4.08	+0.23	0.0039737	1017	−27	−2
7	127	2 58 44.33	46 16 22.05	58 2.39	+0.31	0.0040754	999	−23	−6
8	128	3 2 40.89	47 14 24.44	58 0.65	+0.35	0.0041753	981	−15	−8
9	129	3 6 37.44	48 12 25.09	57 58.87	+0.37	0.0042734	964	− 5	−9
10	130	3 10 34.00	49 10 23.96	57 57.08	+0.36	0.0043698	946	+ 5	−8
11	131	3 14 30.56	50 8 21.04	57 55.26	+0.32	0.0044644	931	+13	−5
12	132	3 18 27.11	51 6 16.30	57 53.44	+0.24	0.0045575	915	+17	−1
13	133	3 22 23.67	52 4 9.74	57 51.62	+0.14	0.0046490	901	+17	+3
14	134	3 26 20.23	53 2 1.36	57 49.83	+0.02	0.0047391	889	+15	+6
15	135	3 30 16.78	53 59 51.19	57 48.11	−0.11	0.0048280	878	+ 8	+8
16	136	3 34 13.34	54 57 39.30	57 46.46	−0.26	0.0049158	867	+ 1	+9
17	137	3 38 9.90	55 55 25.76	57 44.86	−0.41	0.0050025	857	− 7	+7
18	138	3 42 6.45	56 53 10.62	57 43.35	−0.55	0.0050882	848	−13	+5
19	139	3 46 3.01	57 50 53.97	57 41.93	−0.67	0.0051730	840	−14	+1
20	140	3 49 59.57	58 48 35.90	57 40.61	−0.76	0.0052570	830	−12	−3
21	141	3 53 56.13	59 46 16.51	57 39.38	−0.82	0.0053400	820	− 6	−7
22	142	3 57 52.68	60 43 55.89	57 38.24	−0.85	0.0054220	810	+ 2	−9
23	143	4 1 49.24	61 41 34.13	57 37.17	−0.85	0.0055030	798	+10	−9
24	144	4 5 45.80	62 39 11.30	57 36.16	−0.84	0.0055828	785	+17	−7
25	145	4 9 42.36	63 36 47.46	57 35.19	−0.79	0.0056613	772	+22	−4
26	146	4 13 38.92	64 34 22.65	57 34.26	−0.72	0.0057385	756	+23	0
27	147	4 17 35.47	65 31 56.91	57 33.37	−0.62	0.0058141	739	+19	+4
28	148	4 21 32.03	66 29 30.28	57 32.51	−0.52	0.0058880	722	+12	+7
29	149	4 25 28.59	67 27 2.79	57 31.67	−0.41	0.0059602	704	+ 2	+9
30	150	4 29 25.15	68 24 34.46	57 30.84	−0.30	0.0060306	684	− 9	+9
31	151	4 33 21.70	69 22 5.30	57 30.02	−0.18	0.0060990	663	−18	+7
Juni 1	152	4 37 18.26	70 19 35.32	57 29.20	−0.06	0.0061653	640	−24	+3
2	153	4 41 14.82	71 17 4.52		+0.03	0.0062293		−26	−1

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni 1	St	−2 28.39	4 34 49.87	4 5.67	+22 0 35.1	8 7.1	136.45	15 46.10
2	Mo	2 19.28	4 38 55.54	4 6.07	22 8 42.2	7 44.0	136.56	15 45.96
3	Di	2 9.77	4 43 1.61	4 6.45	22 16 26.2	7 20.7	136.67	15 45.83
4	Mi	1 59.88	4 47 8.06	4 6.81	22 23 46.9	6 57.1	136.77	15 45.70
5	Do	1 49.63	4 51 14.87	4 7.14	22 30 44.0	6 33.5	136.87	15 45.58
6	Fr	−1 39.04	4 55 22.01	4 7.46	+22 37 17.5	6 9.6	136.96	15 45.46
7	Sa	1 28.14	4 59 29.47	4 7.74	22 43 27.1	5 45.7	137.05	15 45.34
8	St	1 16.96	5 3 37.21	4 8.01	22 49 12.8	5 21.6	137.13	15 45.23
9	Mo	1 5.51	5 7 45.22	4 8.25	22 54 34.4	4 57.4	137.20	15 45.13
10	Di	0 53.82	5 11 53.47	4 8.46	22 59 31.8	4 33.1	137.27	15 45.03
11	Mi	−0 41.92	5 16 1.93	4 8.65	+23 4 4.9	4 8.7	137.34	15 44.94
12	Do	0 29.82	5 20 10.58	4 8.83	23 8 13.6	3 44.3	137.40	15 44.85
13	Fr	0 17.55	5 24 19.41	4 8.98	23 11 57.9	3 19.7	137.45	15 44.77
14	Sa	−0 5.13	5 28 28.39	4 9.12	23 15 17.6	2 55.2	137.49	15 44.68
15	St	+0 7.42	5 32 37.51	4 9.22	23 18 12.8	2 30.6	137.53	15 44.60
16	Mo	+0 20.09	5 36 46.73	4 9.32	+23 20 43.4	2 5.8	137.56	15 44.53
17	Di	0 32.85	5 40 56.05	4 9.40	23 22 49.2	1 41.2	137.59	15 44.46
18	Mi	0 45.69	5 45 5.45	4 9.45	23 24 30.4	1 16.5	137.61	15 44.39
19	Do	0 58.59	5 49 14.90	4 9.48	23 25 46.9	0 51.7	137.62	15 44.32
20	Fr	1 11.52	5 53 24.38	4 9.50	23 26 38.6	0 27.0	137.63	15 44.26
21	Sa	+1 24.46	5 57 33.88	4 9.50	+23 27 5.6	0 2.2	137.63	15 44.20
22	St	1 37.39	6 1 43.38	4 9.47	23 27 7.8	0 22.5	137.62	15 44.14
23	Mo	1 50.30	6 5 52.85	4 9.43	23 26 45.3	0 47.4	137.60	15 44.09
24	Di	2 3.17	6 10 2.28	4 9.37	23 25 57.9	1 12.1	137.58	15 44.04
25	Mi	2 15.98	6 14 11.65	4 9.27	23 24 45.8	1 36.8	137.55	15 44.00
26	Do	+2 28.70	6 18 20.92	4 9.16	+23 23 9.0	2 1.5	137.52	15 43.96
27	Fr	2 41.30	6 22 30.08	4 9.02	23 21 7.5	2 26.1	137.48	15 43.92
28	Sa	2 53.76	6 26 39.10	4 8.86	23 18 41.4	2 50.7	137.43	15 43.89
29	St	3 6.06	6 30 47.96	4 8.68	23 15 50.7	3 15.2	137.38	15 43.86
30	Mo	3 18.18	6 34 56.64	4 8.48	23 12 35.5	3 39.7	137.32	15 43.84
Juli 1	Di	+3 30.10	6 39 5.12	4 8.24	+23 8 55.8	4 4.0	137.25	15 43.82
2	Mi	3 41.78	6 43 13.36	4 7.98	23 4 51.8	4 28.3	137.18	15 43.81
3	Do	3 53.20	6 47 21.34	4 7.70	23 0 23.5	4 52.4	137.11	15 43.80
4	Fr	4 4.34	6 51 29.04	4 7.39	22 55 31.1	5 16.4	137.03	15 43.80
5	Sa	4 15.17	6 55 36.43	4 7.05	22 50 14.7	5 40.3	136.94	15 43.81
6	St	+4 25.67	6 59 43.48	4 6.70	+22 44 34.4	6 4.0	136.85	15 43.82
7	Mo	4 35.81	7 3 50.18	4 6.31	22 38 30.4	6 27.6	136.75	15 43.83
8	Di	4 45.56	7 7 56.49	4 5.91	22 32 2.8	6 50.9	136.65	15 43.86
9	Mi	4 54.91	7 12 2.40	4 5.48	22 25 11.9	7 14.1	136.54	15 43.89
10	Do	5 3.83	7 16 7.88		22 17 57.8		136.42	15 43.92

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Juni	1	152	4 37 18.26	70 19 35.32	57 29.20	−0.06	0.0061653	640	−24	+3
	2	153	4 41 14.82	71 17 4.52	57 28.36	+0.03	0.0062293	618	−26	−1
	3	154	4 45 11.38	72 14 32.88	57 27.50	+0.11	0.0062911	594	−24	−5
	4	155	4 49 7.94	73 12 0.38	57 26.60	+0.16	0.0063505	570	−18	−7
	5	156	4 53 4.50	74 9 26.98	57 25.66	+0.19	0.0064075	545	− 8	−9
	6	157	4 57 1.05	75 6 52.64	57 24.68	+0.19	0.0064620	521	+ 1	−8
	7	158	5 0 57.61	76 4 17.32	57 23.68	+0.16	0.0065141	497	+10	−6
	8	159	5 4 54.17	77 1 41.00	57 22.65	+0.08	0.0065638	473	+16	−3
	9	160	5 8 50.73	77 59 3.65	57 21.61	−0.01	0.0066111	452	+18	+1
	10	161	5 12 47.29	78 56 25.26	57 20.57	−0.13	0.0066563	431	+16	+5
	11	162	5 16 43.85	79 53 45.83	57 19.54	−0.26	0.0066994	412	+10	+8
	12	163	5 20 40.40	80 51 5.37	57 18.54	−0.39	0.0067406	393	+ 2	+9
	13	164	5 24 36.96	81 48 23.91	57 17.61	−0.52	0.0067799	376	− 6	+8
	14	165	5 28 33.52	82 45 41.52	57 16.76	−0.65	0.0068175	361	−11	+6
	15	166	5 32 30.08	83 42 58.28	57 15.98	−0.77	0.0068536	346	−14	+2
	16	167	5 36 26.64	84 40 14.26	57 15.27	−0.86	0.0068882	331	−14	−2
	17	168	5 40 23.20	85 37 29.53	57 14.66	−0.93	0.0069213	318	− 9	−6
	18	169	5 44 19.76	86 34 44.19	57 14.14	−0.97	0.0069531	304	− 1	−8
	19	170	5 48 16.32	87 31 58.33	57 13.72	−0.97	0.0069835	290	+ 7	−9
	20	171	5 52 12.88	88 29 12.05	57 13.39	−0.95	0.0070125	275	+16	−8
	21	172	5 56 9.43	89 26 25.44	57 13.14	−0.91	0.0070400	260	+22	−5
	22	173	6 0 5.99	90 23 38.58	57 12.95	−0.85	0.0070660	243	+24	−1
	23	174	6 4 2.55	91 20 51.53	57 12.82	−0.76	0.0070903	226	+21	+3
	24	175	6 7 59.11	92 18 4.35	57 12.75	−0.66	0.0071129	209	+15	+6
	25	176	6 11 55.67	93 15 17.10	57 12.74	−0.54	0.0071338	189	+ 6	+8
	26	177	6 15 52.23	94 12 29.84	57 12.75	−0.42	0.0071527	170	− 5	+9
	27	178	6 19 48.79	95 9 42.59	57 12.80	−0.30	0.0071697	149	−15	+7
	28	179	6 23 45.35	96 6 55.39	57 12.87	−0.19	0.0071846	126	−23	+4
	29	180	6 27 41.90	97 4 8.26	57 12.96	−0.09	0.0071972	103	−26	0
	30	181	6 31 38.46	98 1 21.22	57 13.06	0.00	0.0072075	79	−25	−4
Juli	1	182	6 35 35.02	98 58 34.28	57 13.16	+0.07	0.0072154	54	−20	−7
	2	183	6 39 31.58	99 55 47.44	57 13.24	+0.10	0.0072208	28	−12	−9
	3	184	6 43 28.14	100 53 0.68	57 13.27	+0.10	0.0072236	1	− 2	−9
	4	185	6 47 24.70	101 50 13.95	57 13.27	+0.07	0.0072237	27	+ 7	−7
	5	186	6 51 21.25	102 47 27.22	57 13.22	+0.01	0.0072210	53	+13	−4
	6	187	6 55 17.81	103 44 40.44	57 13.13	−0.08	0.0072157	79	+17	0
	7	188	6 59 14.37	104 41 53.57	57 13.02	−0.19	0.0072078	104	+16	+4
	8	189	7 3 10.93	105 39 6.59	57 12.90	−0.32	0.0071974	128	+12	+7
	9	190	7 7 7.49	106 36 19.49	57 12.79	−0.45	0.0071846	150	+ 4	+9
	10	191	7 11 4.05	107 33 32.28		−0.58	0.0071696		− 3	+9

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli	9	Mi	+4 54.91	7 12 2.40	4 5.48	+22 25 11.9	7 14.1	136.54	15 43.89
	10	Do	5 3.83	7 16 7.88	4 5.05	22 17 57.8	7 37.2	136.42	15 43.92
	11	Fr	5 12.32	7 20 12.93	4 4.59	22 10 20.6	8 0.0	136.30	15 43.96
	12	Sa	5 20.35	7 24 17.52	4 4.11	22 2 20.6	8 22.6	136.17	15 44.00
	13	St	5 27.91	7 28 21.63	4 3.63	21 53 58.0	8 45.0	136.04	15 44.04
	14	Mo	+5 34.98	7 32 25.26	4 3.13	+21 45 13.0	9 7.3	135.91	15 44.09
	15	Di	5 41.55	7 36 28.39	4 2.63	21 36 5.7	9 29.3	135.77	15 44.14
	16	Mi	5 47.62	7 40 31.02	4 2.12	21 26 36.4	9 51.2	135.63	15 44.20
	17	Do	5 53.18	7 44 33.14	4 1.59	21 16 45.2	10 12.7	135.49	15 44.26
	18	Fr	5 58.22	7 48 34.73	4 1.06	21 6 32.5	10 34.2	135.34	15 44.32
	19	Sa	+6 2.72	7 52 35.79	4 0.52	+20 55 58.3	10 55.4	135.19	15 44.39
	20	St	6 6.68	7 56 36.31	3 59.98	20 45 2.9	11 16.3	135.04	15 44.46
	21	Mo	6 10.10	8 0 36.29	3 59.44	20 33 46.6	11 37.0	134.88	15 44.53
	22	Di	6 12.98	8 4 35.73	3 58.88	20 22 9.6	11 57.6	134.72	15 44.60
	23	Mi	6 15.31	8 8 34.61	3 58.32	20 10 12.0	12 17.9	134.56	15 44.68
	24	Do	+6 17.08	8 12 32.93	3 57.76	+19 57 54.1	12 37.9	134.40	15 44.76
	25	Fr	6 18.28	8 16 30.69	3 57.18	19 45 16.2	12 57.7	134.23	15 44.85
	26	Sa	6 18.90	8 20 27.87	3 56.61	19 32 18.5	13 17.2	134.06	15 44.94
	27	St	6 18.95	8 24 24.48	3 56.03	19 19 1.3	13 36.5	133.89	15 45.03
	28	Mo	6 18.42	8 28 20.51	3 55.45	19 5 24.8	13 55.5	133.72	15 45.13
	29	Di	+6 17.31	8 32 15.96	3 54.86	+18 51 29.3	14 14.3	133.55	15 45.23
	30	Mi	6 15.62	8 36 10.82	3 54.26	18 37 15.0	14 32.7	133.38	15 45.34
	31	Do	6 13.33	8 40 5.08	3 53.67	18 22 42.3	14 50.8	133.20	15 45.45
Aug.	1	Fr	6 10.44	8 43 58.75	3 53.07	18 7 51.5	15 8.7	133.03	15 45.57
	2	Sa	6 6.95	8 47 51.82	3 52.47	17 52 42.8	15 26.2	132.86	15 45.70
	3	St	+6 2.86	8 51 44.29	3 51.85	+17 37 16.6	15 43.5	132.69	15 45.83
	4	Mo	5 58.16	8 55 36.14	3 51.24	17 21 33.1	16 0.4	132.51	15 45.96
	5	Di	5 52.85	8 59 27.38	3 50.63	17 5 32.7	16 16.9	132.34	15 46.10
	6	Mi	5 46.92	9 3 18.01	3 50.02	16 49 15.8	16 33.1	132.16	15 46.24
	7	Do	5 40.38	9 7 8.03	3 49.40	16 32 42.7	16 49.1	131.99	15 46.39
	8	Fr	+5 33.22	9 10 57.43	3 48.79	+16 15 53.6	17 4.7	131.82	15 46.55
	9	Sa	5 25.46	9 14 46.22	3 48.20	15 58 48.9	17 20.0	131.65	15 46.71
	10	St	5 17.10	9 18 34.42	3 47.61	15 41 28.9	17 34.9	131.48	15 46.87
	11	Mo	5 8.15	9 22 22.03	3 47.02	15 23 54.0	17 49.6	131.31	15 47.03
	12	Di	4 58.61	9 26 9.05	3 46.44	15 6 4.4	18 4.1	131.15	15 47.20
	13	Mi	+4 48.50	9 29 55.49	3 45.88	+14 48 0.3	18 18.1	130.99	15 47.37
	14	Do	4 37.83	9 33 41.37	3 45.33	14 29 42.2	18 31.9	130.83	15 47.54
	15	Fr	4 26.60	9 37 26.70	3 44.80	14 11 10.3	18 45.4	130.67	15 47.72
	16	Sa	4 14.84	9 41 11.50	3 44.27	13 52 24.9	18 58.6	130.52	15 47.90
	17	St	4 2.56	9 44 55.77		13 33 26.3		130.37	15 48.08

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Juli	9	190	7 7 7.49	106 36 19.49	57 12.79	−0.45	0.0071846	150	+ 4	+9
	10	191	7 11 4.05	107 33 32.28	57 12.68	−0.58	0.0071696	172	− 3	+9
	11	192	7 15 0.61	108 30 44.96	57 12.61	−0.70	0.0071524	191	−10	+7
	12	193	7 18 57.16	109 27 57.57	57 12.61	−0.82	0.0071333	209	−14	+3
	13	194	7 22 53.72	110 25 10.18	57 12.67	−0.91	0.0071124	226	−14	−1
	14	195	7 26 50.28	111 22 22.85	57 12.80	−0.97	0.0070898	242	−10	−5
	15	196	7 30 46.84	112 19 35.65	57 13.01	−1.00	0.0070656	257	− 3	−7
	16	197	7 34 43.40	113 16 48.66	57 13.31	−1.01	0.0070399	271	+ 5	−9
	17	198	7 38 39.95	114 14 1.97	57 13.71	−0.98	0.0070128	286	+13	−8
	18	199	7 42 36.51	115 11 15.68	57 14.19	−0.93	0.0069842	300	+20	−6
	19	200	7 46 33.07	116 8 29.87	57 14.75	−0.86	0.0069542	315	+24	−2
	20	201	7 50 29.63	117 5 44.62	57 15.38	−0.77	0.0069227	330	+23	+1
	21	202	7 54 26.19	118 3 0.00	57 16.09	−0.66	0.0068897	345	+17	+5
	22	203	7 58 22.74	119 0 16.09	57 16.86	−0.54	0.0068552	361	+ 9	+8
	23	204	8 2 19.30	119 57 32.95	57 17.70	−0.40	0.0068191	377	− 2	+9
	24	205	8 6 15.86	120 54 50.65	57 18.59	−0.27	0.0067814	395	−12	+8
	25	206	8 10 12.41	121 52 9.24	57 19.53	−0.16	0.0067419	413	−20	+6
	26	207	8 14 8.97	122 49 28.77	57 20.51	−0.06	0.0067006	432	−25	+2
	27	208	8 18 5.53	123 46 49.28	57 21.52	+0.02	0.0066574	452	−26	−2
	28	209	8 22 2.09	124 44 10.80	57 22.56	+0.09	0.0066122	474	−22	−6
	29	210	8 25 58.64	125 41 33.36	57 23.59	+0.13	0.0065648	496	−15	−8
	30	211	8 29 55.20	126 38 56.95	57 24.63	+0.14	0.0065152	519	− 6	−9
	31	212	8 33 51.76	127 36 21.58	57 25.65	+0.11	0.0064633	543	+ 4	−8
Aug.	1	213	8 37 48.31	128 33 47.23	57 26.63	+0.05	0.0064090	568	+12	−5
	2	214	8 41 44.87	129 31 13.86	57 27.56	−0.02	0.0063522	593	+16	−1
	3	215	8 45 41.43	130 28 41.42	57 28.44	−0.12	0.0062929	618	+16	+3
	4	216	8 49 37.98	131 26 9.86	57 29.26	−0.25	0.0062311	642	+13	+6
	5	217	8 53 34.54	132 23 39.12	57 30.04	−0.39	0.0061669	664	+ 6	+8
	6	218	8 57 31.10	133 21 9.16	57 30.82	−0.52	0.0061005	686	− 1	+9
	7	219	9 1 27.65	134 18 39.98	57 31.60	−0.65	0.0060319	706	− 8	+7
	8	220	9 5 24.21	135 16 11.58	57 32.39	−0.77	0.0059613	724	−13	+4
	9	221	9 9 20.77	136 13 43.97	57 33.20	−0.86	0.0058889	741	−14	0
	10	222	9 13 17.32	137 11 17.17	57 34.05	−0.93	0.0058148	756	−13	−4
	11	223	9 17 13.88	138 8 51.22	57 34.98	−0.97	0.0057392	770	− 6	−7
	12	224	9 21 10.43	139 6 26.20	57 35.96	−0.97	0.0056622	783	+ 2	−9
	13	225	9 25 6.99	140 4 2.16	57 37.02	−0.95	0.0055839	794	+10	−9
	14	226	9 29 3.54	141 1 39.18	57 38.15	−0.90	0.0055045	805	+19	−7
	15	227	9 33 0.10	141 59 17.33	57 39.36	−0.82	0.0054240	816	+24	−4
	16	228	9 36 56.66	142 56 56.69	57 40.65	−0.72	0.0053424	826	+24	0
	17	229	9 40 53.21	143 54 37.34		−0.61	0.0052598		+20	+4

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Aug. 16	Sa	+4 14.84	9 41 11.50	3 44.27	+13 52 24.9	18 58.6	130.52	15 47.90
17	St	4 2.56	9 44 55.77	3 43.76	13 33 26.3	19 11.5	130.37	15 48.08
18	Mo	3 49.76	9 48 39.53	3 43.26	13 14 14.8	19 24.2	130.22	15 48.26
19	Di	3 36.47	9 52 22.79	3 42.78	12 54 50.6	19 36.5	130.07	15 48.45
20	Mi	3 22.69	9 56 5.57	3 42.31	12 35 14.1	19 48.5	129.93	15 48.63
21	Do	+3 8.44	9 59 47.88	3 41.85	+12 15 25.6	20 0.2	129.79	15 48.82
22	Fr	2 53.74	10 3 29.73	3 41.41	11 55 25.4	20 11.7	129.65	15 49.01
23	Sa	2 38.60	10 7 11.14	3 40.99	11 35 13.7	20 22.8	129.52	15 49.21
24	St	2 23.03	10 10 52.13	3 40.57	11 14 50.9	20 33.6	129.39	15 49.41
25	Mo	2 7.05	10 14 32.70	3 40.18	10 54 17.3	20 44.2	129.27	15 49.61
26	Di	+1 50.68	10 18 12.88	3 39.80	+10 33 33.1	20 54.3	129.15	15 49.81
27	Mi	1 33.92	10 21 52.68	3 39.43	10 12 38.8	21 4.2	129.03	15 50.02
28	Do	1 16.79	10 25 32.11	3 39.07	9 51 34.6	21 13.8	128.92	15 50.23
29	Fr	0 59.31	10 29 11.18	3 38.73	9 30 20.8	21 22.9	128.81	15 50.44
30	Sa	0 41.49	10 32 49.91	3 38.40	9 8 57.9	21 31.7	128.71	15 50.66
31	St	+0 23.33	10 36 28.31	3 38.08	+ 8 47 26.2	21 40.2	128.61	15 50.88
Sept. 1	Mo	+0 4.85	10 40 6.39	3 37.77	8 25 46.0	21 48.4	128.52	15 51.11
2	Di	—0 13.93	10 43 44.16	3 37.48	8 3 57.6	21 56.2	128.43	15 51.34
3	Mi	0 33.00	10 47 21.64	3 37.20	7 42 1.4	22 3.5	128.35	15 51.57
4	Do	0 52.36	10 50 58.84	3 36.92	7 19 57.9	22 10.6	128.27	15 51.81
5	Fr	—1 11.99	10 54 35.76	3 36.68	+ 6 57 47.3	22 17.3	128.20	15 52.05
6	Sa	1 31.87	10 58 12.44	3 36.45	6 35 30.0	22 23.6	128.13	15 52.30
7	St	1 51.98	11 1 48.89	3 36.22	6 13 6.4	22 29.7	128.07	15 52.54
8	Mo	2 12.31	11 5 25.11	3 36.03	5 50 36.7	22 35.4	128.02	15 52.79
9	Di	2 32.83	11 9 1.14	3 35.86	5 28 1.3	22 40.8	127.97	15 53.04
10	Mi	—2 53.52	11 12 37.00	3 35.70	+ 5 5 20.5	22 45.9	127.93	15 53.30
11	Do	3 14.37	11 16 12.70	3 35.57	4 42 34.6	22 50.7	127.89	15 53.55
12	Fr	3 35.36	11 19 48.27	3 35.45	4 19 43.9	22 55.1	127.86	15 53.81
13	Sa	3 56.46	11 23 23.72	3 35.37	3 56 48.8	22 59.3	127.83	15 54.06
14	St	4 17.65	11 26 59.09	3 35.30	3 33 49.5	23 3.1	127.81	15 54.32
15	Mo	—4 38.90	11 30 34.39	3 35.26	+ 3 10 46.4	23 6.7	127.79	15 54.58
16	Di	5 0.19	11 34 9.65	3 35.23	2 47 39.7	23 9.9	127.78	15 54.83
17	Mi	5 21.51	11 37 44.88	3 35.23	2 24 29.8	23 12.9	127.78	15 55.09
18	Do	5 42.83	11 41 20.11	3 35.26	2 1 16.9	23 15.5	127.78	15 55.35
19	Fr	6 4.13	11 44 55.37	3 35.31	1 38 1.4	23 17.8	127.79	15 55.61
20	Sa	—6 25.38	11 48 30.68	3 35.37	+ 1 14 43.6	23 19.7	127.80	15 55.87
21	St	6 46.56	11 52 6.05	3 35.46	0 51 23.9	23 21.4	127.82	15 56.13
22	Mo	7 7.65	11 55 41.51	3 35.58	0 28 2.5	23 22.8	127.84	15 56.39
23	Di	7 28.63	11 59 17.09	3 35.71	+ 0 4 39.7	23 23.8	127.87	15 56.66
24	Mi	7 49.47	12 2 52.80		— 0 18 44.1		127.91	15 56.92

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
		h m s	° ′ ″	′ ″	″				
Aug. 16	228	9 36 56.66	142 56 56.69	57 40.65	−0.72	0.0053424	826	+24	0
17	229	9 40 53.21	143 54 37.34	57 42.01	−0.61	0.0052598	836	+20	+4
18	230	9 44 49.77	144 52 19.35	57 43.44	−0.48	0.0051762	847	+13	+7
19	231	9 48 46.32	145 50 2.79	57 44.95	−0.35	0.0050915	857	+ 2	+9
20	232	9 52 42.88	146 47 47.74	57 46.51	−0.21	0.0050058	868	− 8	+8
21	233	9 56 39.43	147 45 34.25	57 48.14	−0.08	0.0049190	879	−18	+6
22	234	10 0 35.99	148 43 22.39	57 49.82	+0.03	0.0048311	890	−24	+3
23	235	10 4 32.54	149 41 12.21	57 51.55	+0.12	0.0047421	902	−26	−1
24	236	10 8 29.10	150 39 3.76	57 53.32	+0.19	0.0046519	916	−23	−5
25	237	10 12 25.65	151 36 57.08	57 55.12	+0.24	0.0045603	930	−18	−8
26	238	10 16 22.21	152 34 52.20	57 56.94	+0.26	0.0044673	945	− 9	−9
27	239	10 20 18.76	153 32 49.14	57 58.77	+0.25	0.0043728	961	+ 1	−8
28	240	10 24 15.32	154 30 47.91	58 0.58	+0.21	0.0042767	978	+ 9	−6
29	241	10 28 11.87	155 28 48.49	58 2.37	+0.13	0.0041789	996	+15	−2
30	242	10 32 8.42	156 26 50.86	58 4.11	+0.03	0.0040793	1015	+17	+2
31	243	10 36 4.98	157 24 54.97	58 5.79	−0.09	0.0039778	1033	+14	+5
Sept. 1	244	10 40 1.53	158 23 0.76	58 7.41	−0.21	0.0038745	1052	+ 9	+8
2	245	10 43 58.09	159 21 8.17	58 8.97	−0.35	0.0037693	1070	+ 1	+9
3	246	10 47 54.64	160 19 17.14	58 10.48	−0.48	0.0036623	1087	− 6	+8
4	247	10 51 51.20	161 17 27.62	58 11.96	−0.60	0.0035536	1102	−12	+5
5	248	10 55 47.75	162 15 39.58	58 13.41	−0.70	0.0034434	1115	−15	+2
6	249	10 59 44.31	163 13 52.99	58 14.87	−0.78	0.0033319	1127	−14	−2
7	250	11 3 40.86	164 12 7.86	58 16.34	−0.82	0.0032192	1137	− 8	−6
8	251	11 7 37.42	165 10 24.20	58 17.85	−0.84	0.0031055	1145	− 1	−8
9	252	11 11 33.97	166 8 42.05	58 19.41	−0.82	0.0029910	1152	+ 8	−9
10	253	11 15 30.52	167 7 1.46	58 21.01	−0.77	0.0028758	1158	+16	−8
11	254	11 19 27.07	168 5 22.47	58 22.66	−0.70	0.0027600	1163	+20	−5
12	255	11 23 23.63	169 3 45.13	58 24.37	−0.60	0.0026437	1166	+24	−1
13	256	11 27 20.18	170 2 9.50	58 26.14	−0.49	0.0025271	1170	+22	+3
14	257	11 31 16.74	171 0 35.64	58 27.97	−0.36	0.0024101	1172	+16	+6
15	258	11 35 13.29	171 59 3.61	58 29.87	−0.22	0.0022929	1174	+ 7	+8
16	259	11 39 9.84	172 57 33.48	58 31.83	−0.08	0.0021755	1176	− 3	+9
17	260	11 43 6.40	173 56 5.31	58 33.84	+0.04	0.0020579	1178	−15	+7
18	261	11 47 2.95	174 54 39.15	58 35.90	+0.16	0.0019401	1179	−22	+4
19	262	11 50 59.51	175 53 15.05	58 38.02	+0.27	0.0018222	1182	−25	0
20	263	11 54 56.06	176 51 53.07	58 40.19	+0.35	0.0017040	1184	−25	−4
21	264	11 58 52.61	177 50 33.26	58 42.41	+0.42	0.0015856	1187	−20	−7
22	265	12 2 49.16	178 49 15.67	58 44.67	+0.45	0.0014669	1190	−12	−9
23	266	12 6 45.72	179 48 0.34	58 46.94	+0.46	0.0013479	1195	− 3	−9
24	267	12 10 42.27	180 46 47.28		+0.43	0.0012284		+ 7	−7

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 23	Di	— 7 28.63	11 59 17.09	3 35.71	+ 0 4 39.7	23 23.8	127.87	15 56.66
24	Mi	7 49.47	12 2 52.80	3 35.87	— 0 18 44.1	23 24.4	127.91	15 56.92
25	Do	8 10.16	12 6 28.67	3 36.04	0 42 8.5	23 24.7	127.95	15 57.18
26	Fr	8 30.67	12 10 4.71	3 36.23	1 5 33.2	23 24.7	128.00	15 57.45
27	Sa	8 50.99	12 13 40.94	3 36.45	1 28 57.9	23 24.3	128.06	15 57.72
28	St	— 9 11.10	12 17 17.39	3 36.68	— 1 52 22.2	23 23.4	128.12	15 57.99
29	Mo	9 30.97	12 20 54.07	3 36.92	2 15 45.6	23 22.3	128.19	15 58.26
30	Di	9 50.60	12 24 30.99	3 37.18	2 39 7.9	23 20.6	128.27	15 58.53
Okt. 1	Mi	10 9.98	12 28 8.17	3 37.45	3 2 28.5	23 18.7	128.35	15 58.81
2	Do	10 29.08	12 31 45.62	3 37.75	3 25 47.2	23 16.3	128.44	15 59.09
3	Fr	—10 47.88	12 35 23.37	3 38.06	— 3 49 3.5	23 13.6	128.53	15 59.37
4	Sa	11 6.38	12 39 1.43	3 38.38	4 12 17.1	23 10.4	128.63	15 59.65
5	St	11 24.55	12 42 39.81	3 38.73	4 35 27.5	23 7.0	128.74	15 59.93
6	Mo	11 42.38	12 46 18.54	3 39.09	4 58 34.5	23 3.1	128.85	16 0.21
7	Di	11 59.84	12 49 57.63	3 39.48	5 21 37.6	22 58.8	128.96	16 0.50
8	Mi	—12 16.91	12 53 37.11	3 39.89	— 5 44 36.4	22 54.3	129.08	16 0.78
9	Do	12 33.57	12 57 17.00	3 40.31	6 7 30.7	22 49.4	129.21	16 1.06
10	Fr	12 49.81	13 0 57.31	3 40.76	6 30 20.1	22 44.1	129.34	16 1.34
11	Sa	13 5.61	13 4 38.07	3 41.23	6 53 4.2	22 38.4	129.48	16 1.62
12	St	13 20.94	13 8 19.30	3 41.72	7 15 42.6	22 32.5	129.62	16 1.90
13	Mo	—13 35.78	13 12 1.02	3 42.23	— 7 38 15.1	22 26.1	129.77	16 2.18
14	Di	13 50.10	13 15 43.25	3 42.76	8 0 41.2	22 19.4	129.92	16 2.46
15	Mi	14 3.89	13 19 26.01	3 43.31	8 23 0.6	22 12.4	130.08	16 2.73
16	Do	14 17.13	13 23 9.32	3 43.89	8 45 13.0	22 5.0	130.24	16 3.00
17	Fr	14 29.80	13 26 53.21	3 44.49	9 7 18.0	21 57.2	130.41	16 3.27
18	Sa	—14 41.87	13 30 37.70	3 45.10	— 9 29 15.2	21 49.1	130.58	16 3.54
19	St	14 53.33	13 34 22.80	3 45.73	9 51 4.3	21 40.5	130.76	16 3.81
20	Mo	15 4.15	13 38 8.53	3 46.38	10 12 44.8	21 31.7	130.94	16 4.08
21	Di	15 14.32	13 41 54.91	3 47.06	10 34 16.5	21 22.4	131.13	16 4.34
22	Mi	15 23.82	13 45 41.97	3 47.75	10 55 38.9	21 12.8	131.32	16 4.60
23	Do	—15 32.63	13 49 29.72	3 48.44	—11 16 51.7	21 2.7	131.52	16 4.86
24	Fr	15 40.73	13 53 18.16	3 49.17	11 37 54.4	20 52.2	131.72	16 5.12
25	Sa	15 48.12	13 57 7.33	3 49.90	11 58 46.6	20 41.3	131.93	16 5.38
26	St	15 54.78	14 0 57.23	3 50.64	12 19 27.9	20 30.0	132.14	16 5.63
27	Mo	16 0.70	14 4 47.87	3 51.39	12 39 57.9	20 18.3	132.35	16 5.89
28	Di	—16 5.86	14 8 39.26	3 52.15	—13 0 16.2	20 6.1	132.57	16 6.15
29	Mi	16 10.26	14 12 31.41	3 52.92	13 20 22.3	19 53.5	132.79	16 6.40
30	Do	16 13.90	14 16 24.33	3 53.69	13 40 15.8	19 40.4	133.01	16 6.66
31	Fr	16 16.76	14 20 18.02	3 54.47	13 59 56.2	19 26.9	133.23	16 6.91
Nov. 1	Sa	16 18.85	14 24 12.49		14 19 23.1		133.46	16 7.17

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff	Breite	Lg. Rad. v.	Diff.	Nut. in 0″.01 dλ	dε
Sept. 23	266	12h 6m 45s.72	179° 48′ 0″.34	58′ 46″.94	+0″.46	0.0013479	1195	− 3	−9
24	267	12 10 42.27	180 46 47.28	58 49.23	+0.43	0.0012284	1201	+ 7	−7
25	268	12 14 38.82	181 45 36.51	58 51.51	+0.36	0.0011083	1207	+14	−4
26	269	12 18 35.38	182 44 28.02	58 53.77	+0.27	0.0009876	1215	+16	0
27	270	12 22 31.93	183 43 21.79	58 55.99	+0.16	0.0008661	1223	+15	+4
28	271	12 26 28.49	184 42 17.78	58 58.14	+0.03	0.0007438	1232	+11	+7
29	272	12 30 25.04	185 41 15.92	59 0.23	−0.10	0.0006206	1242	+ 3	+9
30	273	12 34 21.59	186 40 16.15	59 2.24	−0.23	0.0004964	1251	− 4	+8
Okt. 1	274	12 38 18.15	187 39 18.39	59 4.19	−0.35	0.0003713	1259	−11	+6
2	275	12 42 14.70	188 38 22.58	59 6.07	−0.45	0.0002454	1267	−15	+3
3	276	12 46 11.25	189 37 28.65	59 7.89	−0.54	0.0001187	1273	−15	−1
4	277	12 50 7.81	190 36 36.54	59 9.66	−0.60	9.9999914	1276	−11	−5
5	278	12 54 4.36	191 35 46.20	59 11.41	−0.63	9.9998638	1279	− 3	−8
6	279	12 58 0.92	192 34 57.61	59 13.16	−0.63	9.9997359	1280	+ 5	−9
7	280	13 1 57.47	193 34 10.77	59 14.93	−0.59	9.9996079	1278	+14	−8
8	281	13 5 54.02	194 33 25.70	59 16.71	−0.52	9.9994801	1276	+21	−6
9	282	13 9 50.58	195 32 42.41	59 18.53	−0.43	9.9993525	1272	+25	−2
10	283	13 13 47.13	196 32 0.94	59 20.37	−0.32	9.9992253	1268	+24	+2
11	284	13 17 43.69	197 31 21.31	59 22.24	−0.21	9.9990985	1262	+18	+5
12	285	13 21 40.24	198 30 43.55	59 24.15	−0.08	9.9989723	1254	+10	+8
13	286	13 25 36.80	199 30 7.70	59 26.10	+0.06	9.9988469	1247	− 1	+9
14	287	13 29 33.35	200 29 33.80	59 28.09	+0.19	9.9987222	1239	−11	+8
15	288	13 33 29.90	201 29 1.89	59 30.14	+0.32	9.9985983	1229	−19	+5
16	289	13 37 26.46	202 28 32.03	59 32.23	+0.44	9.9984754	1221	−25	+2
17	290	13 41 23.01	203 28 4.26	59 34.36	+0.53	9.9983533	1211	−26	−2
18	291	13 45 19.57	204 27 38.62	59 36.54	+0.60	9.9982322	1202	−21	−6
19	292	13 49 16.12	205 27 15.16	59 38.77	+0.63	9.9981120	1193	−15	−8
20	293	13 53 12.68	206 26 53.93	59 41.03	+0.64	9.9979927	1185	− 5	−9
21	294	13 57 9.23	207 26 34.96	59 43.29	+0.62	9.9978742	1177	+ 4	−8
22	295	14 1 5.79	208 26 18.25	59 45.57	+0.57	9.9977565	1171	+11	−6
23	296	14 5 2.34	209 26 3.82	59 47.85	+0.50	9.9976394	1165	+15	−1
24	297	14 8 58.90	210 25 51.67	59 50.11	+0.40	9.9975229	1160	+15	+3
25	298	14 12 55.45	211 25 41.78	59 52.34	+0.28	9.9974069	1157	+12	+6
26	299	14 16 52.01	212 25 34.12	59 54.51	+0.15	9.9972912	1154	+ 5	+8
27	300	14 20 48.56	213 25 28.63	59 56.62	+0.02	9.9971758	1152	− 2	+9
28	301	14 24 45.12	214 25 25.25	59 58.64	−0.10	9.9970606	1151	−10	+7
29	302	14 28 41.67	215 25 23.89	60 0.56	−0.20	9.9969455	1149	−14	+4
30	303	14 32 38.23	216 25 24.45	60 2.39	−0.29	9.9968306	1146	−15	−0
31	304	14 36 34.78	217 25 26.84	60 4.13	−0.36	9.9967160	1143	−13	−4
Nov. 1	305	14 40 31.34	218 25 30.97		−0.39	9.9966017		− 7	−7

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Okt.	31	Fr	−16 16.76	14 20 18.02	3 54.47	−13 59 56.2	19 26.9	133.23	16 6.91
Nov.	1	Sa	16 18.85	14 24 12.49	3 55.25	14 19 23.1	19 13.0	133.46	16 7.17
	2	St	16 20.15	14 28 7.74	3 56.04	14 38 36.1	18 58.7	133.69	16 7.42
	3	Mo	16 20.67	14 32 3.78	3 56.84	14 57 34.8	18 43.9	133.92	16 7.67
	4	Di	16 20.39	14 36 0.62	3 57.65	15 16 18.7	18 28.8	134.15	16 7.92
	5	Mi	−16 19.30	14 39 58.27	3 58.45	−15 34 47.5	18 13.3	134.39	16 8.17
	6	Do	16 17.40	14 43 56.72	3 59.26	15 53 0.8	17 57.3	134.63	16 8.42
	7	Fr	16 14.69	14 47 55.98	4 0.09	16 10 58.1	17 41.0	134.86	16 8.66
	8	Sa	16 11.16	14 51 56.07	4 0.92	16 28 39.1	17 24.2	135.10	16 8.90
	9	St	16 6.80	14 55 56.99	4 1.75	16 46 3.3	17 7.1	135.34	16 9.14
	10	Mo	−16 1.61	14 59 58.74	4 2.58	−17 3 10.4	16 49.7	135.57	16 9.38
	11	Di	15 55.58	15 4 1.32	4 3.43	17 20 0.1	16 31.8	135.81	16 9.61
	12	Mi	15 48.71	15 8 4.75	4 4.27	17 36 31.9	16 13.5	136.05	16 9.83
	13	Do	15 41.00	15 12 9.02	4 5.11	17 52 45.4	15 54.8	136.29	16 10.05
	14	Fr	15 32.44	15 16 14.13	4 5.97	18 8 40.2	15 35.8	136.53	16 10.27
	15	Sa	−15 23.03	15 20 20.10	4 6.81	−18 24 16.0	15 16.5	136.76	16 10.48
	16	St	15 12.77	15 24 26.91	4 7.66	18 39 32.5	14 56.8	137.00	16 10.69
	17	Mo	15 1.66	15 28 34.57	4 8.52	18 54 29.3	14 36.6	137.24	16 10.90
	18	Di	14 49.71	15 32 43.09	4 9.36	19 9 5.9	14 16.1	137.47	16 11.10
	19	Mi	14 36.91	15 36 52.45	4 10.20	19 23 22.0	13 55.2	137.70	16 11.29
	20	Do	−14 23.27	15 41 2.65	4 11.04	−19 37 17.2	13 34.0	137.92	16 11.49
	21	Fr	14 8.79	15 45 13.69	4 11.87	19 50 51.2	13 12.4	138.14	16 11.68
	22	Sa	13 53.48	15 49 25.56	4 12.68	20 4 3.6	12 50.4	138.36	16 11.86
	23	St	13 37.35	15 53 38.24	4 13.49	20 16 54.0	12 28.0	138.58	16 12.04
	24	Mo	13 20.42	15 57 51.73	4 14.28	20 29 22.0	12 5.2	138.79	16 12.22
	25	Di	−13 2.70	16 2 6.01	4 15.05	−20 41 27.2	11 42.1	139.00	16 12.40
	26	Mi	12 44.20	16 6 21.06	4 15.81	20 53 9.3	11 18.6	139.20	16 12.57
	27	Do	12 24.95	16 10 36.87	4 16.54	21 4 27.9	10 54.9	139.40	16 12.74
	28	Fr	12 4.97	16 14 53.41	4 17.25	21 15 22.8	10 30.7	139.60	16 12.91
	29	Sa	11 44.28	16 19 10.66	4 17.93	21 25 53.5	10 6.3	139.79	16 13.07
	30	St	−11 22.91	16 23 28.59	4 18.59	−21 35 59.8	9 41.5	139.98	16 13.23
Dez.	1	Mo	11 0.87	16 27 47.18	4 19.23	21 45 41.3	9 16.5	140.16	16 13.39
	2	Di	10 38.20	16 32 6.41	4 19.85	21 54 57.8	8 51.1	140.34	16 13.55
	3	Mi	10 14.91	16 36 26.26	4 20.44	22 3 48.9	8 25.5	140.51	16 13.70
	4	Do	9 51.03	16 40 46.70	4 21.01	22 12 14.4	7 59.7	140.67	16 13.85
	5	Fr	− 9 26.58	16 45 7.71	4 21.54	−22 20 14.1	7 33.6	140.83	16 14.00
	6	Sa	9 1.60	16 49 29.25	4 22.06	22 27 47.7	7 7.3	140.98	16 14.14
	7	St	8 36.10	16 53 51.31	4 22.55	22 34 55.0	6 40.8	141.12	16 14.28
	8	Mo	8 10.11	16 58 13.86	4 23.01	22 41 35.8	6 14.0	141.25	16 14.41
	9	Di	7 43.66	17 2 36.87		22 47 49.8		141.38	16 14.53

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
		h m s	° ′ ″	′ ″	″				
Okt. 31	304	14 36 34.78	217 25 26.84	60 4.13	−0.36	9.9967160	1143	−13	−4
Nov. 1	305	14 40 31.34	218 25 30.97	60 5.81	−0.39	9.9966017	1138	− 7	−7
2	306	14 44 27.89	219 25 36.78	60 7.42	−0.39	9.9964879	1133	+ 2	−9
3	307	14 48 24.45	220 25 44.20	60 8.99	−0.36	9.9963746	1125	+12	−9
4	308	14 52 21.01	221 25 53.19	60 10.53	−0.31	9.9962621	1115	+19	−7
5	309	14 56 17.56	222 26 3.72	60 12.05	−0.23	9.9961506	1104	+24	−4
6	310	15 0 14.12	223 26 15.77	60 13.57	−0.12	9.9960402	1092	+24	0
7	311	15 4 10.68	224 26 29.34	60 15.08	0.00	9.9959310	1079	+21	+4
8	312	15 8 7.23	225 26 44.42	60 16.60	+0.12	9.9958231	1064	+14	+7
9	313	15 12 3.79	226 27 1.02	60 18.14	+0.25	9.9957167	1048	+ 3	+9
10	314	15 16 0.34	227 27 19.16	60 19.68	+0.39	9.9956119	1032	− 7	+8
11	315	15 19 56.90	228 27 38.84	60 21.22	+0.52	9.9955087	1013	−17	+6
12	316	15 23 53.46	229 28 0.06	60 22.79	+0.62	9.9954074	994	−23	+3
13	317	15 27 50.02	230 28 22.85	60 24.41	+0.71	9.9953080	975	−25	−1
14	318	15 31 46.57	231 28 47.26	60 26.06	+0.78	9.9952105	955	−23	−5
15	319	15 35 43.13	232 29 13.32	60 27.74	+0.83	9.9951150	935	−17	−8
16	320	15 39 39.69	233 29 41.06	60 29.45	+0.86	9.9950215	915	− 8	−9
17	321	15 43 36.24	234 30 10.51	60 31.19	+0.85	9.9949300	896	+ 1	−8
18	322	15 47 32.80	235 30 41.70	60 32.97	+0.80	9.9948404	877	+ 9	−6
19	323	15 51 29.36	236 31 14.67	60 34.75	+0.73	9.9947527	858	+15	−2
20	324	15 55 25.92	237 31 49.42	60 36.52	+0.64	9.9946669	841	+16	+2
21	325	15 59 22.47	238 32 25.94	60 38.27	+0.53	9.9945828	826	+13	+5
22	326	16 3 19.03	239 33 4.21	60 40.00	+0.41	9.9945002	811	+ 8	+8
23	327	16 7 15.59	240 33 44.21	60 41.67	+0.28	9.9944191	797	0	+9
24	328	16 11 12.15	241 34 25.88	60 43.27	+0.15	9.9943394	784	− 7	+8
25	329	16 15 8.70	242 35 9.15	60 44.80	+0.04	9.9942610	773	−13	+5
26	330	16 19 5.26	243 35 53.95	60 46.23	−0.05	9.9941837	761	−16	+2
27	331	16 23 1.82	244 36 40.18	60 47.56	−0.12	9.9941076	750	−15	−2
28	332	16 26 58.38	245 37 27.74	60 48.78	−0.16	9.9940326	738	− 9	−6
29	333	16 30 54.94	246 38 16.52	60 49.91	−0.17	9.9939588	726	0	−8
30	334	16 34 51.50	247 39 6.43	60 50.94	−0.15	9.9938862	713	+ 9	−9
Dez. 1	335	16 38 48.05	248 39 57.37	60 51.88	−0.10	9.9938149	698	+18	−8
2	336	16 42 44.61	249 40 49.25	60 52.77	−0.02	9.9937451	683	+23	−5
3	337	16 46 41.17	250 41 42.02	60 53.61	+0.08	9.9936768	666	+25	−1
4	338	16 50 37.73	251 42 35.63	60 54.42	+0.19	9.9936102	648	+23	+3
5	339	16 54 34.29	252 43 30.05	60 55.19	+0.31	9.9935454	628	+17	+6
6	340	16 58 30.85	253 44 25.24	60 55.93	+0.43	9.9934826	607	+ 7	+8
7	341	17 2 27.41	254 45 21.17	60 56.63	+0.55	9.9934219	585	− 3	+9
8	342	17 6 23.97	255 46 17.80	60 57.32	+0.67	9.9933634	563	−14	+7
9	343	17 10 20.52	256 47 15.12		+0.78	9.9933071		−21	+4

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Dez. 8	Mo	—8 10.11	16 58 13.86	4 23.01	—22 41 35.8	6 14.0	141.25	16 14.41
9	Di	7 43.66	17 2 36.87	4 23.44	22 47 49.8	5 47.2	141.38	16 14.53
10	Mi	7 16.77	17 7 0.31	4 23.86	22 53 37.0	5 20.0	141.50	16 14.65
11	Do	6 49.47	17 11 24.17	4 24.24	22 58 57.0	4 52.7	141.61	16 14.77
12	Fr	6 21.79	17 15 48.41	4 24.60	23 3 49.7	4 25.4	141.71	16 14.88
13	Sa	—5 53.75	17 20 13.01	4 24.92	—23 8 15.1	3 57.9	141.80	16 14.98
14	St	5 25.39	17 24 37.93	4 25.23	23 12 13.0	3 30.2	141.89	16 15.08
15	Mo	4 56.72	17 29 3.16	4 25.51	23 15 43.2	3 2.3	141.97	16 15.17
16	Di	4 27.77	17 33 28.67	4 25.75	23 18 45.5	2 34.4	142.04	16 15.26
17	Mi	3 58.58	17 37 54.42	4 25.96	23 21 19.9	2 6.4	142.10	16 15.34
18	Do	—3 29.17	17 42 20.38	4 26.15	—23 23 26.3	1 38.4	142.14	16 15.41
19	Fr	2 59.58	17 46 46.53	4 26.31	23 25 4.7	1 10.2	142.18	16 15.48
20	Sa	2 29.83	17 51 12.84	4 26.44	23 26 14.9	0 41.9	142.21	16 15.54
21	St	1 59.95	17 55 39.28	4 26.52	23 26 56.8	0 13.6	142.23	16 15.60
22	Mo	1 29.99	18 0 5.80	4 26.57	23 27 10.4	0 14.7	142.24	16 15.65
23	Di	—0 59.98	18 4 32.37	4 26.58	—23 26 55.7	0 43.0	142.25	16 15.70
24	Mi	—0 29.96	18 8 58.95	4 26.56	23 26 12.7	1 11.3	142.24	16 15.74
25	Do	+0 0.04	18 13 25.51	4 26.50	23 25 1.4	1 39.6	142.22	16 15.78
26	Fr	0 29.98	18 17 52.01	4 26.40	23 23 21.8	2 7.9	142.19	16 15.82
27	Sa	0 59.82	18 22 18.41	4 26.26	23 21 13.9	2 36.1	142.15	16 15.85
28	St	+1 29.52	18 26 44.67	4 26.08	—23 18 37.8	3 4.2	142.11	16 15.88
29	Mo	1 59.04	18 31 10.75	4 25.86	23 15 33.6	3 32.2	142.06	16 15.91
30	Di	2 28.34	18 35 36.61	4 25.61	23 12 1.4	4 0.1	142.00	16 15.93
31	Mi	2 57.40	18 40 2.22	4 25.33	23 8 1.3	4 27.9	141.93	16 15.95
32	Do	3 26.17	18 44 27.55	4 25.00	23 3 33.4	4 55.5	141.85	16 15.96
33	Fr	+3 54.61	18 48 52.55		—22 58 37.9		141.77	16 15.96

		h
Frühlingsäquinoktium	März 20	18
Sommersolstitium	Juni 21	14
Herbstäquinoktium	Sept. 23	5
Wintersolstitium	Dez. 22	0

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1913.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
Dez. 8	342	17h 6m 23.97s	255° 46′ 17.80″	60′ 57.32″	+0.67″	9.9933634	563	−14	+7
9	343	17 10 20.52	256 47 15.12	60 58.01	+0.78	9.9933071	538	−21	+4
10	344	17 14 17.08	257 48 13.13	60 58.70	+0.86	9.9932533	513	−25	0
11	345	17 18 13.64	258 49 11.83	60 59.40	+0.93	9.9932020	487	−25	−4
12	346	17 22 10.20	259 50 11.23	61 0.13	+0.98	9.9931533	461	−19	−7
13	347	17 26 6.76	260 51 11.36	61 0.87	+0.99	9.9931072	434	−11	−9
14	348	17 30 3.32	261 52 12.23	61 1.64	+0.98	9.9930638	406	− 2	−9
15	349	17 33 59.88	262 53 13.87	61 2.44	+0.93	9.9930232	379	+ 7	−7
16	350	17 37 56.44	263 54 16.31	61 3.27	+0.86	9.9929853	353	+13	−4
17	351	17 41 53.00	264 55 19.58	61 4.12	+0.77	9.9929500	326	+15	0
18	352	17 45 49.56	265 56 23.70	61 4.98	+0.66	9.9929174	301	+14	+4
19	353	17 49 46.11	266 57 28.68	61 5.81	+0.53	9.9928873	278	+ 9	+7
20	354	17 53 42.67	267 58 34.49	61 6.61	+0.40	9.9928595	256	+ 2	+9
21	355	17 57 39.23	268 59 41.10	61 7.37	+0.27	9.9928339	234	− 5	+8
22	356	18 1 35.79	270 0 48.47	61 8.10	+0.15	9.9928105	215	−12	+6
23	357	18 5 32.35	271 1 56.57	61 8.75	+0.05	9.9927890	197	−15	+3
24	358	18 9 28.91	272 3 5.32	61 9.31	−0.02	9.9927693	179	−15	−1
25	359	18 13 25.47	273 4 14.63	61 9.77	−0.06	9.9927514	163	−11	−5
26	360	18 17 22.03	274 5 24.40	61 10.13	−0.07	9.9927351	146	− 4	−8
27	361	18 21 18.59	275 6 34.53	61 10.38	−0.06	9.9927205	130	+ 6	−9
28	362	18 25 15.15	276 7 44.91	61 10.53	−0.02	9.9927075	113	+15	−8
29	363	18 29 11.71	277 8 55.44	61 10.57	+0.05	9.9926962	96	+21	−6
30	364	18 33 8.27	278 10 6.01	61 10.53	+0.15	9.9926866	79	+26	−2
31	365	18 37 4.82	279 11 16.54	61 10.42	+0.26	9.9926787	59	+25	+2
32	366	18 41 1.38	280 12 26.96	61 10.25	+0.38	9.9926728	39	+19	+6
33	367	18 44 57.94	281 13 37.21		+0.51	9.9926689		+11	+8

Perigäum Jan. 0 15h
Apogäum Juli 3 13

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913		X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
		+			−			−		
Jan.	0.0	0.161 3749	86219		0.889 7917	13531		0.385 9811	5867	
	0.5	0.169 9968	86090	−7080	0.888 4386	14224	−1137	0.385 3944	6167	−494
	1.0	0.178 6058	85954		0.887 0162	14916		0.384 7777	6468	
	1.5	0.187 2012	85812	7056	0.885 5246	15608	1253	0.384 1309	6768	544
	2.0	0.195 7824	85663		0.883 9638	16299		0.383 4541	7068	
	2.5	0.204 3487	85506	7031	0.882 3339	16988	1368	0.382 7473	7367	594
	3.0	0.212 8993	85343		0.880 6351	17677		0.382 0106	7666	
	3.5	0.221 4336	85173	7004	0.878 8674	18365	1482	0.381 2440	7964	644
	4.0	0.229 9509	84994		0.877 0309	19051		0.380 4476	8262	
	4.5	0.238 4503	84810	6974	0.875 1258	19735	1596	0.379 6214	8560	694
		+			−			−		
	5.0	0.246 9313	84619		0.873 1523	20418		0.378 7654	8856	
	5.5	0.255 3932	84420	−6942	0.871 1105	21100	−1710	0.377 8798	9152	−743
	6.0	0.263 8352	84215		0.869 0005	21779		0.376 9646	9447	
	6.5	0.272 2567	84002	6908	0.866 8226	22456	1823	0.376 0199	9741	792
	7.0	0.280 6569	83783		0.864 5770	23131		0.375 0458	10035	
	7.5	0.289 0352	83556	6872	0.862 2639	23805	1935	0.374 0423	10328	841
	8.0	0.297 3908	83323		0.859 8834	24477		0.373 0095	10619	
	8.5	0.305 7231	83082	6833	0.857 4357	25146	2047	0.371 9476	10910	890
	9.0	0.314 0313	82836		0.854 9211	25814		0.370 8566	11200	
	9.5	0.322 3149	82582	6793	0.852 3397	26479	2158	0.369 7366	11489	938
		+			−			−		
	10.0	0.330 5731	82322		0.849 6918	27142		0.368 5877	11777	
	10.5	0.338 8053	82055	−6750	0.846 9776	27803	−2269	0.367 4100	12063	−986
	11.0	0.347 0108	81783		0.844 1973	28461		0.366 2037	12349	
	11.5	0.355 1891	81503	6705	0.841 3512	29117	2379	0.364 9688	12633	1034
	12.0	0.363 3394	81217		0.838 4395	29769		0.363 7055	12916	
	12.5	0.371 4611	80925	6658	0.835 4626	30419	2488	0.362 4139	13198	1082
	13.0	0.379 5536	80626		0.832 4207	31067		0.361 0941	13479	
	13.5	0.387 6162	80321	6609	0.829 3140	31711	2596	0.359 7462	13759	1129
	14.0	0.395 6483	80009		0.826 1429	32352		0.358 3703	14038	
	14.5	0.403 6492	79692	6558	0.822 9077	32991	2704	0.356 9665	14315	1176
		+			−			−		
	15.0	0.411 6184	79368		0.819 6086	33627		0.355 5350	14590	
	15.5	0.419 5552	79039	−6505	0.816 2459	34259	−2810	0.354 0760	14865	−1222
	16.0	0.427 4591	78703		0.812 8200	34889		0.352 5895	15137	
	16.5	0.435 3294	78361	6450	0.809 3311	35516	2916	0.351 0758	15408	1268
	17.0	0.443 1655	78015		0.805 7795	36140		0.349 5350	15679	
	17.5	0.450 9670	77662	6393	0.802 1655	36761	3021	0.347 9671	15948	1314
	18.0	0.458 7332	77303		0.798 4894	37377		0.346 3723	16215	
	18.5	0.466 4635	76940	6334	0.794 7517	37989	3125	0.344 7508	16481	1359
	19.0	0.474 1575			0.790 9528			0.343 1027		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X	Diff.	Red. auf 1910.0	Y	Diff.	Red. auf 1910.0	Z	Diff.	Red. auf 1910.0
	+			—			—		
Jan. 19.0	0.474 1575	76570		0.790 9528	38599		0.343 1027	16745	
19.5	0.481 8145	76196	—6273	0.787 0929	39207	—3228	0.341 4282	17008	—1404
20.0	0.489 4341	75816		0.783 1722	39811		0.339 7274	17269	
20.5	0.497 0157	75430	6210	0.779 1911	40412	3330	0.338 0005	17530	1448
21.0	0.504 5587	75040		0.775 1499	41010		0.336 2475	17788	
21.5	0.512 0627	74644	6145	0.771 0489	41604	3431	0.334 4687	18046	1492
22.0	0.519 5271	74243		0.766 8885	42196		0.332 6641	18303	
22.5	0.526 9514	73838	6078	0.762 6689	42785	3531	0.330 8338	18557	1535
23.0	0.534 3352	73426		0.758 3904	43371		0.328 9781	18811	
23.5	0.541 6778	73010	6009	0.754 0533	43953	3630	0.327 0970	19063	1578
	+			—			—		
24.0	0.548 9788	72588		0.749 6580	44532		0.325 1907	19315	
24.5	0.556 2376	72161	—5939	0.745 2048	45108	—3727	0.323 2592	19564	—1621
25.0	0.563 4537	71729		0.740 6940	45681		0.321 3028	19813	
25.5	0.570 6266	71291	5866	0.736 1259	46251	3823	0.319 3215	20059	1663
26.0	0.577 7557	70848		0.731 5008	46817		0.317 3156	20305	
26.5	0.584 8405	70399	5792	0.726 8191	47381	3919	0.315 2851	20550	1704
27.0	0.591 8804	69945		0.722 0810	47940		0.313 2301	20793	
27.5	0.598 8749	69485	5716	0.717 2870	48497	4013	0.311 1508	21034	1745
28.0	0.605 8234	69020		0.712 4373	49051		0.309 0474	21275	
28.5	0.612 7254	68550	5638	0.707 5322	49600	4106	0.306 9199	21513	1786
	+			—			—		
29.0	0.619 5804	68073		0.702 5722	50147		0.304 7686	21750	
29.5	0.626 3877	67591	—5559	0.697 5575	50689	—4198	0.302 5936	21985	—1826
30.0	0.633 1468	67104		0.692 4886	51228		0.300 3951	22219	
30.5	0.639 8572	66611	5478	0.687 3658	51763	4288	0.298 1732	22452	1865
31.0	0.646 5183	66113		0.682 1895	52293		0.295 9280	22682	
31.5	0.653 1296	65609	5395	0.676 9602	52820	4377	0.293 6598	22911	1904
Febr. 1.0	0.659 6905	65100		0.671 6782	53343		0.291 3687	23138	
1.5	0.666 2005	64586	5311	0.666 3439	53861	4464	0.289 0549	23364	1942
2.0	0.672 6591	64066		0.660 9578	54375		0.286 7185	23587	
2.5	0.679 0657	63540	5225	0.655 5203	54884	4550	0.284 3598	23809	1979
	+			—			—		
3.0	0.685 4197	63010		0.650 0319	55389		0.281 9789	24028	
3.5	0.691 7207	62475	—5137	0.644 4930	55890	—4635	0.279 5761	24246	—2016
4.0	0.697 9682	61935		0.638 9040	56386		0.277 1515	24461	
4.5	0.704 1617	61389	5048	0.633 2654	56878	4718	0.274 7054	24674	2052
5.0	0.710 3006	60839		0.627 5776	57364		0.272 2380	24886	
5.5	0.716 3845	60284	4957	0.621 8412	57846	4800	0.269 7494	25095	2088
6.0	0.722 4129	59725		0.616 0566	58322		0.267 2399	25303	
6.5	0.728 3854	59161	4865	0.610 2244	58795	4880	0.264 7096	25507	2123
7.0	0.734 3015			0.604 3449			0.262 1589		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Febr. 7.0	0.734 3015	58591		0.604 3449	59263		0.262 1589	25710	
7.5	0.740 1606	58018	−4771	0.598 4186	59725	−4959	0.259 5879	25911	−2157
8.0	0.745 9624	57440		0.592 4461	60182		0.256 9968	26109	
8.5	0.751 7064	56857	4675	0.586 4279	60635	5037	0.254 3859	26306	2191
9.0	0.757 3921	56270		0.580 3644	61082		0.251 7553	26500	
9.5	0.763 0191	55679	4578	0.574 2562	61524	5113	0.249 1053	26692	2224
10.0	0.768 5870	55085		0.568 1038	61960		0.246 4361	26881	
10.5	0.774 0955	54485	4480	0.561 9078	62391	5187	0.243 7480	27067	2256
11.0	0.779 5440	53881		0.555 6687	62818		0.241 0413	27252	
11.5	0.784 9321		4380	0.549 3869		5260	0.238 3161		2288
	+	53275		—	63238		—	27435	
12.0	0.790 2596	52665		0.543 0631	63654		0.235 5726	27615	
12.5	0.795 5261	52050	−4279	0.536 6977	64064	−5331	0.232 8111	27793	−2319
13.0	0.800 7311	51432		0.530 2913	64469		0.230 0318	27969	
13.5	0.805 8743	50811	4176	0.523 8444	64868	5401	0.227 2349	28141	2349
14.0	0.810 9554	50186		0.517 3576	65263		0.224 4208	28311	
14.5	0.815 9740	49558	4072	0.510 8313	65651	5469	0.221 5897	28480	2378
15.0	0.820 9298	48927		0.504 2662	66035		0.218 7417	28646	
15.5	0.825 8225	48293	3967	0.497 6627	66412	5535	0.215 8771	28809	2407
16.0	0.830 6518	47656		0.491 0215	66785		0.212 9962	28971	
16.5	0.835 4174		3861	0.484 3430		5599	0.210 0991		2435
	+	47015		—	67152		—	29129	
17.0	0.840 1189	46372		0.477 6278	67514		0.207 1862	29286	
17.5	0.844 7561	45726	−3754	0.470 8764	67871	−5662	0.204 2576	29441	−2462
18.0	0.849 3287	45078		0.464 0893	68223		0.201 3135	29593	
18.5	0.853 8365	44426	3646	0.457 2670	68570	5723	0.198 3542	29743	2488
19.0	0.858 2791	43772		0.450 4100	68911		0.195 3799	29891	
19.5	0.862 6563	43115	3536	0.443 5189	69248	5782	0.192 3908	30036	2514
20.0	0.866 9678	42456		0.436 5941	69579		0.189 3872	30180	
20.5	0.871 2134	41794	3425	0.429 6362	69905	5839	0.186 3692	30321	2539
21.0	0.875 3928	41130		0.422 6457	70227		0.183 3371	30460	
21.5	0.879 5058		3314	0.415 6230		5895	0.180 2911		2564
	+	40462		—	70543		—	30596	
22.0	0.883 5520	39792		0.408 5687	70854		0.177 2315	30732	
22.5	0.887 5312	39119	−3202	0.401 4833	71160	−5949	0.174 1583	30865	−2588
23.0	0.891 4431	38444		0.394 3673	71462		0.171 0718	30996	
23.5	0.895 2875	37766	3088	0.387 2211	71758	6001	0.167 9722	31124	2611
24.0	0.899 0641	37084		0.380 0453	72050		0.164 8598	31251	
24.5	0.902 7725	36399	2973	0.372 8403	72336	6051	0.161 7347	31376	2633
25.0	0.906 4124	35711		0.365 6067	72617		0.158 5971	31497	
25.5	0.909 9835	35021	2858	0.358 3450	72893	6099	0.155 4474	31617	2653
26.0	0.913 4856			0.351 0557			0.152 2857		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Febr. 26.0	0.913 4856	34328		0.351 0557	73163		0.152 2857	31734	
26.5	0.916 9184	33633	−2741	0.343 7394	73428	−6145	0.149 1123	31850	−2673
27.0	0.920 2817	32934		0.336 3966	73687		0.145 9273	31963	
27.5	0.923 5751	32234	2624	0.329 0279	73940	6190	0.142 7310	32073	2692
28.0	0.926 7985	31530		0.321 6339	74188		0.139 5237	32181	
28.5	0.929 9515	30824	2506	0.314 2151	74431	6233	0.136 3056	32286	2711
März 1.0	0.933 0339	30115		0.306 7720	74667		0.133 0770	32389	
1.5	0.936 0454	29404	2387	0.299 3053	74898	6274	0.129 8381	32490	2729
2.0	0.938 9858	28691		0.291 8155	75123		0.126 5891	32587	
2.5	0.941 8549	27974	2267	0.284 3032	75341	6313	0.123 3304	32683	2746
	+			—			—		
3.0	0.944 6523	27255		0.276 7691	75554		0.120 0621	32776	
3.5	0.947 3778	26535	−2147	0.269 2137	75762	−6350	0.116 7845	32867	−2762
4.0	0.950 0313	25813		0.261 6375	75963		0.113 4978	32954	
4.5	0.952 6126	25089	2026	0.254 0412	76158	6385	0.110 2024	33038	2777
5.0	0.955 1215	24363		0.246 4254	76347		0.106 8986	33120	
5.5	0.957 5578	23636	1905	0.238 7907	76529	6418	0.103 5866	33200	2792
6.0	0.959 9214	22906		0.231 1378	76706		0.100 2666	33277	
6.5	0.962 2120	22174	1783	0.223 4672	76877	6449	0.096 9389	33351	2806
7.0	0.964 4294	21441		0.215 7795	77040		0.093 6038	33423	
7.5	0.966 5735	20707	1660	0.208 0755	77198	6478	0.090 2615	33491	2818
	+			—			—		
8.0	0.968 6442	19972		0.200 3557	77350		0.086 9124	33557	
8.5	0.970 6414	19235	−1537	0.192 6207	77496	−6505	0.083 5567	33621	−2830
9.0	0.972 5649	18496		0.184 8711	77636		0.080 1946	33681	
9.5	0.974 4145	17757	1414	0.177 1075	77769	6531	0.076 8265	33738	2841
10.0	0.976 1902	17016		0.169 3306	77896		0.073 4527	33793	
10.5	0.977 8918	16276	1290	0.161 5410	78016	6554	0.070 0734	33845	2851
11.0	0.979 5194	15534		0.153 7394	78130		0.066 6889	33894	
11.5	0.981 0728	14793	1166	0.145 9264	78238	6576	0.063 2995	33941	2860
12.0	0.982 5521	14050		0.138 1026	78340		0.059 9054	33986	
12.5	0.983 9571	13306	1041	0.130 2686	78435	6596	0.056 5068	34027	2868
	+			—			—		
13.0	0.985 2877	12562		0.122 4251	78524		0.053 1041	34065	
13.5	0.986 5439	11818	−916	0.114 5727	78607	−6613	0.049 6976	34101	−2876
14.0	0.987 7257	11073		0.106 7120	78685		0.046 2875	34134	
14.5	0.988 8330	10328	791	0.098 8435	78756	6628	0.042 8741	34164	2883
15.0	0.989 8658	9583		0.090 9679	78820		0.039 4577	34192	
15.5	0.990 8241	8839	665	0.083 0859	78879	6642	0.036 0385	34216	2889
16.0	0.991 7080	8095		0.075 1980	78931		0.032 6169	34239	
16.5	0.992 5175	7350	539	0.067 3049	78978	6654	0.029 1930	34259	2894
17.0	0.993 2525			0.059 4071			0.025 7671		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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März 17.0	0.993 2525	6607		0.059 4071	79019		0.025 7671	34276	
17.5	0.993 9132	5863	− 413	0.051 5052	79054	−6663	0.022 3395	34290	−2898
18.0	0.994 4995	5120		0.043 5998	79083		0.018 9105	34303	
18.5	0.995 0115	4378	287	0.035 6915	79107	6670	0.015 4802	34313	2901
19.0	0.995 4493	3636		0.027 7808	79125		0.012 0489	34321	
19.5	0.995 8129	2894	161	0.019 8683	79138	6675	0.008 6168	34326	2903
20.0	0.996 1023	2153		0.011 9545	79144		0.005 1842	34328	
20.5	0.996 3176	1412	− 35	0.004 0401	79146	6678	0.001 7514	34328	2904
	+			+			+		
21.0	0.996 4588	672		0.003 8745	79142		0.001 6814	34327	
21.5	0.996 5260	68	+ 91	0.011 7887	79132	6680	0.005 1141	34323	2905
	+			+			+		
22.0	0.996 5192	809		0.019 7019	79118		0.008 5464	34317	
22.5	0.996 4383	1548	+ 217	0.027 6137	79098	−6680	0.011 9781	34308	−2905
23.0	0.996 2835	2288		0.035 5235	79072		0.015 4089	34297	
23.5	0.996 0547	3027	343	0.043 4307	79042	6677	0.018 8386	34284	2904
24.0	0.995 7520	3765		0.051 3349	79006		0.022 2670	34268	
24.5	0.995 3755	4503	469	0.059 2355	78964	6672	0.025 6938	34251	2902
25.0	0.994 9252	5242		0.067 1319	78916		0.029 1189	34230	
25.5	0.994 4010	5980	595	0.075 0235	78863	6666	0.032 5419	34207	2899
26.0	0.993 8030	6718		0.082 9098	78804		0.035 9626	34182	
26.5	0.993 1312	7455	721	0.090 7902	78740	6658	0.039 3808	34155	2895
	+			+			+		
27.0	0.992 3857	8192		0.098 6642	78670		0.042 7963	34125	
27.5	0.991 5665	8928	+ 846	0.106 5312	78595	−6647	0.046 2088	34093	−2891
28.0	0.990 6737	9664		0.114 3907	78514		0.049 6181	34058	
28.5	0.989 7073	10399	971	0.122 2421	78426	6634	0.053 0239	34020	2886
29.0	0.988 6674	11134		0.130 0847	78333		0.056 4259	33980	
29.5	0.987 5540	11867	1096	0.137 9180	78235	6620	0.059 8239	33938	2879
30.0	0.986 3673	12599		0.145 7415	78129		0.063 2177	33892	
30.5	0.985 1074	13332	1221	0.153 5544	78018	6604	0.066 6069	33844	2872
31.0	0.983 7742	14064		0.161 3562	77901		0.069 9913	33794	
31.5	0.982 3678	14794	1345	0.169 1463	77779	6585	0.073 3707	33742	2864
	+			+			+		
April 1.0	0.980 8884	15523		0.176 9242	77650		0.076 7449	33686	
1.5	0.979 3361	16250	+1469	0.184 6892	77515	−6565	0.080 1135	33628	−2855
2.0	0.977 7111	16977		0.192 4407	77375		0.083 4763	33567	
2.5	0.976 0134	17702	1592	0.200 1782	77228	6543	0.086 8330	33503	2846
3.0	0.974 2432	18425		0.207 9010	77076		0.090 1833	33438	
3.5	0.972 4007	19146	1715	0.215 6086	76917	6519	0.093 5271	33369	2836
4.0	0.970 4861	19867		0.223 3003	76753		0.096 8640	33298	
4.5	0.968 4994	20586	1838	0.230 9756	76583	6493	0.100 1938	33224	2824
5.0	0.966 4408			0.238 6339			0.103 5162		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X	Δ	Red. auf 1910.0	Y	Δ	Red. auf 1910.0	Z	Δ	Red. auf 1910.0
April 5.0	+0.966 4408	21303		+0.238 6339	76407		+0.103 5162	33147	
5.5	0.964 3105	22019	+1960	0.246 2746	76225	−6465	0.106 8309	33069	−2812
6.0	0.962 1086	22732		0.253 8971	76037		0.110 1378	32987	
6.5	0.959 8354	23443	2081	0.261 5008	75843	6435	0.113 4365	32903	2799
7.0	0.957 4911	24152		0.269 0851	75643		0.116 7268	32816	
7.5	0.955 0759	24859	2202	0.276 6494	75438	6403	0.120 0084	32727	2785
8.0	0.952 5900	25563		0.284 1932	75227		0.123 2811	32635	
8.5	0.950 0337	26264	2322	0.291 7159	75010	6369	0.126 5446	32540	2770
9.0	0.947 4073	26964		0.299 2169	74787		0.129 7986	32443	
9.5	0.944 7109	27660	2441	0.306 6956	74558	6333	0.133 0429	32344	2754
10.0	+0.941 9449	28354		+0.314 1514	74324		+0.136 2773	32243	
10.5	0.939 1095	29044	+2560	0.321 5838	74085	−6296	0.139 5016	32138	−2738
11.0	0.936 2051	29733		0.328 9923	73839		0.142 7154	32031	
11.5	0.933 2318	30418	2678	0.336 3762	73589	6257	0.145 9185	31922	2721
12.0	0.930 1900	31101		0.343 7351	73333		0.149 1107	31811	
12.5	0.927 0799	31781	2795	0.351 0684	73071	6216	0.152 2918	31697	2703
13.0	0.923 9018	32458		0.358 3755	72805		0.155 4615	31581	
13.5	0.920 6560	33131	2911	0.365 6560	72534	6173	0.158 6196	31463	2684
14.0	0.917 3429	33801		0.372 9094	72257		0.161 7659	31343	
14.5	0.913 9628	34467	3027	0.380 1351	71976	6128	0.164 9002	31220	2665
15.0	+0.910 5161	35130		+0.387 3327	71690		+0.168 0222	31095	
15.5	0.907 0031	35790	+3142	0.394 5017	71399	−6081	0.171 1317	30968	−2645
16.0	0.903 4241	36447		0.401 6416	71103		0.174 2285	30840	
16.5	0.899 7794	37101	3255	0.408 7519	70802	6033	0.177 3125	30709	2624
17.0	0.896 0693	37751		0.415 8321	70497		0.180 3834	30577	
17.5	0.892 2942	38397	3367	0.422 8818	70187	5983	0.183 4411	30443	2602
18.0	0.888 4545	39041		0.429 9005	69873		0.186 4854	30307	
18.5	0.884 5504	39683	3479	0.436 8878	69554	5931	0.189 5161	30168	2580
19.0	0.880 5821	40321		0.443 8432	69231		0.192 5329	30028	
19.5	0.876 5500	40955	3590	0.450 7663	68904	5877	0.195 5357	29886	2556
20.0	+0.872 4545	41587		+0.457 6567	68572		+0.198 5243	29741	
20.5	0.868 2958	42216	+3699	0.464 5139	68236	−5822	0.201 4984	29596	−2532
21.0	0.864 0742	42842		0.471 3375	67895		0.204 4580	29449	
21.5	0.859 7900	43465	3808	0.478 1270	67549	5765	0.207 4029	29300	2507
22.0	0.855 4435	44084		0.484 8819	67200		0.210 3329	29148	
22.5	0.851 0351	44701	3915	0.491 6019	66845	5706	0.213 2477	28995	2482
23.0	0.846 5650	45315		0.498 2864	66486		0.216 1472	28839	
23.5	0.842 0335	45925	4021	0.504 9350	66123	5646	0.219 0311	28682	2456
24.0	0.837 4410			0.511 5473			0.221 8993		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
April 24.0	+0.837 4410	46533		+0.511 5473	65755		+0.221 8993	28523	
24.5	0.832 7877	47137	+4126	0.518 1228	65382	−5584	0.224 7516	28361	−2429
25.0	0.828 0740	47739		0.524 6610	65005		0.227 5877	28198	
25.5	0.823 3001	48337	4230	0.531 1615	64623	5520	0.230 4075	28033	2401
26.0	0.818 4664	48931		0.537 6238	64237		0.233 2108	27866	
26.5	0.813 5733	49523	4333	0.544 0475	63846	5455	0.235 9974	27697	2373
27.0	0.808 6210	50111		0.550 4321	63450		0.238 7671	27525	
27.5	0.803 6099	50694	4435	0.556 7771	63049	5388	0.241 5196	27351	2344
28.0	0.798 5405	51275		0.563 0820	62644		0.244 2547	27176	
28.5	0.793 4130	51852	4535	0.569 3464	62234	5320	0.246 9723	26999	2314
29.0	+0.788 2278	52425		+0.575 5698	61819		+0.249 6722	26819	
29.5	0.782 9853	52995	+4634	0.581 7517	61400	−5250	0.252 3541	26637	−2284
30.0	0.777 6858	53561		0.587 8917	60976		0.255 0178	26454	
30.5	0.772 3297	54122	4731	0.593 9893	60549	5179	0.257 6632	26268	2253
Mai 1.0	0.766 9175	54679		0.600 0442	60116		0.260 2900	26081	
1.5	0.761 4496	55233	4827	0.606 0558	59679	5106	0.262 8981	25891	2221
2.0	0.755 9263	55783		0.612 0237	59237		0.265 4872	25700	
2.5	0.750 3480	56328	4922	0.617 9474	58791	5032	0.268 0572	25506	2189
3.0	0.744 7152	56870		0.623 8265	58341		0.270 6078	25311	
3.5	0.739 0282	57406	5015	0.629 6606	57886	4956	0.273 1389	25113	2156
4.0	+0.733 2876	57938		+0.635 4492	57427		+0.275 6502	24914	
4.5	0.727 4938	58466	+5107	0.641 1919	56963	−4878	0.278 1416	24713	−2122
5.0	0.721 6472	58989		0.646 8882	56495		0.280 6129	24509	
5.5	0.715 7483	59508	5198	0.652 5377	56023	4799	0.283 0638	24304	2088
6.0	0.709 7975	60021		0.658 1400	55547		0.285 4942	24097	
6.5	0.703 7954	60529	5287	0.663 6947	55066	4719	0.287 9039	23889	2053
7.0	0.697 7425	61033		0.669 2013	54582		0.290 2928	23679	
7.5	0.691 6392	61532	5374	0.674 6595	54093	4638	0.292 6607	23466	2017
8.0	0.685 4860	62026		0.680 0688	53600		0.295 0073	23252	
8.5	0.679 2834	62515	5460	0.685 4288	53105	4555	0.297 3325	23036	1981
9.0	+0.673 0319	62999		+0.690 7393	52605		+0.299 6361	22819	
9.5	0.666 7320	63477	+5544	0.695 9998	52102	−4471	0.301 9180	22601	−1944
10.0	0.660 3843	63950		0.701 2100	51595		0.304 1781	22381	
10.5	0.653 9893	64418	5627	0.706 3695	51084	4385	0.306 4162	22159	1907
11.0	0.647 5475	64881		0.711 4779	50571		0.308 6321	21935	
11.5	0.641 0594	65339	5708	0.716 5350	50053	4298	0.310 8256	21710	1869
12.0	0.634 5255	65791		0.721 5403	49533		0.312 9966	21484	
12.5	0.627 9464	66238	5787	0.726 4936	49009	4211	0.315 1450	21257	1831
13.0	0.621 3226			0.731 3945			0.317 2707		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913		X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
		+			+			+		
Mai	13.0	0.621 3226	66680		0.731 3945	48483		0.317 2707	21028	
	13.5	0.614 6546	67116	+5865	0.736 2428	47953	−4122	0.319 3735	20798	−1792
	14.0	0.607 9430	67547		0.741 0381	47421		0.321 4533	20567	
	14.5	0.601 1883	67973	5941	0.745 7802	46887	4032	0.323 5100	20335	1753
	15.0	0.594 3910	68394		0.750 4689	46350		0.325 5435	20102	
	15.5	0.587 5516	68810	6015	0.755 1039	45809	3941	0.327 5537	19867	1713
	16.0	0.580 6706	69221		0.759 6848	45266		0.329 5404	19632	
	16.5	0.573 7485	69627	6088	0.764 2114	44721	3848	0.331 5036	19396	1673
	17.0	0.566 7858	70028		0.768 6835	44172		0.333 4432	19158	
	17.5	0.559 7830		6159	0.773 1007		3754	0.335 3590		1632
		+	70424		+	43621		+	18919	
	18.0	0.552 7406	70815		0.777 4628	43068		0.337 2509	18679	
	18.5	0.545 6591	71201	+6228	0.781 7696	42512	−3660	0.339 1188	18438	−1591
	19.0	0.538 5390	71582		0.786 0208	41953		0.340 9626	18196	
	19.5	0.531 3808	71959	6295	0.790 2161	41393	3564	0.342 7822	17953	1550
	20.0	0.524 1849	72331		0.794 3554	40830		0.344 5775	17710	
	20.5	0.516 9518	72697	6361	0.798 4384	40264	3467	0.346 3485	17465	1508
	21.0	0.509 6821	73060		0.802 4648	39696		0.348 0950	17219	
	21.5	0.502 3761	73418	6425	0.806 4344	39126	3369	0.349 8169	16971	1466
	22.0	0.495 0343	73771		0.810 3470	38551		0.351 5140	16723	
	22.5	0.487 6572		6487	0.814 2021		3270	0.353 1863		1423
		+	74118		+	37974		+	16473	
	23.0	0.480 2454	74461		0.817 9995	37395		0.354 8336	16222	
	23.5	0.472 7993	74799	+6547	0.821 7390	36813	−3170	0.356 4558	15971	−1380
	24.0	0.465 3194	75131		0.825 4203	36229		0.358 0529	15717	
	24.5	0.457 8063	75459	6605	0.829 0432	35642	3070	0.359 6246	15462	1336
	25.0	0.450 2604	75781		0.832 6074	35053		0.361 1708	15207	
	25.5	0.442 6823	76099	6661	0.836 1127	34460	2969	0.362 6915	14951	1292
	26.0	0.435 0724	76411		0.839 5587	33865		0.364 1866	14693	
	26.5	0.427 4313	76718	6716	0.842 9452	33268	2867	0.365 6559	14433	1247
	27.0	0.419 7595	77020		0.846 2720	32668		0.367 0992	14173	
	27.5	0.412 0575		6769	0.849 5388		2764	0.368 5165		1202
		+	77316		+	32066		+	13913	
	28.0	0.404 3259	77607		0.852 7454	31462		0.369 9078	13650	
	28.5	0.396 5652	77892	+6819	0.855 8916	30855	−2660	0.371 2728	13387	−1157
	29.0	0.388 7760	78171		0.858 9771	30245		0.372 6115	13123	
	29.5	0.380 9589	78445	6867	0.862 0016	29634	2555	0.373 9238	12858	1112
	30.0	0.373 1144	78713		0.864 9650	29020		0.375 2096	12592	
	30.5	0.365 2431	78976	6914	0.867 8670	28404	2450	0.376 4688	12324	1066
	31.0	0.357 3455	79234		0.870 7074	27785		0.377 7012	12056	
	31.5	0.349 4221	79485	6959	0.873 4859	27163	2344	0.378 9068	11786	1020
Juni	1.0	0.341 4736			0.876 2022			0.380 0854		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913		X	Diff.	Red. auf 1910.0	Y	Diff.	Red. auf 1910.0	Z	Diff.	Red. auf 1910.0
Juni	1.0	+0.341 4736	79731		+0.876 2022	26540		+0.380 0854	11516	
	1.5	0.333 5005	79971	+7002	0.878 8562	25915	−2238	0.381 2370	11244	−973
	2.0	0.325 5034	80205		0.881 4477	25288		0.382 3614	10972	
	2.5	0.317 4829	80432	7043	0.883 9765	24660	2131	0.383 4586	10699	926
	3.0	0.309 4397	80654		0.886 4425	24029		0.384 5285	10425	
	3.5	0.301 3743	80869	7082	0.888 8454	23396	2023	0.385 5710	10150	879
	4.0	0.293 2874	81078		0.891 1850	22762		0.386 5860	9875	
	4.5	0.285 1796	81281	7119	0.893 4612	22126	1914	0.387 5735	9599	832
	5.0	0.277 0515	81478		0.895 6738	21489		0.388 5334	9321	
	5.5	0.268 9037	81668	7153	0.897 8227	20849	1805	0.389 4655	9043	785
	6.0	+0.260 7369	81852		+0.899 9076	20208		+0.390 3698	8765	
	6.5	0.252 5517	82029	+7186	0.901 9284	19566	−1695	0.391 2463	8487	−738
	7.0	0.244 3488	82200		0.903 8850	18924		0.392 0950	8207	
	7.5	0.236 1288	82365	7217	0.905 7774	18280	1585	0.392 9157	7927	690
	8.0	0.227 8923	82524		0.907 6054	17635		0.393 7084	7647	
	8.5	0.219 6399	82677	7246	0.909 3689	16989	1475	0.394 4731	7367	642
	9.0	0.211 3722	82823		0.911 0678	16343		0.395 2098	7087	
	9.5	0.203 0899	82963	7272	0.912 7021	15696	1364	0.395 9185	6806	593
	10.0	0.194 7936	83096		0.914 2717	15048		0.396 5991	6524	
	10.5	0.186 4840	83224	7296	0.915 7765	14400	1253	0.397 2515	6243	545
	11.0	+0.178 1616	83346		+0.917 2165	13752		+0.397 8758	5962	
	11.5	0.169 8270	83461	+7319	0.918 5917	13102	−1141	0.398 4720	5680	−496
	12.0	0.161 4809	83571		0.919 9019	12452		0.399 0400	5398	
	12.5	0.153 1238	83674	7340	0.921 1471	11802	1029	0.399 5798	5116	447
	13.0	0.144 7564	83772		0.922 3273	11152		0.400 0914	4834	
	13.5	0.136 3792	83864	7358	0.923 4425	10502	917	0.400 5748	4552	398
	14.0	0.127 9928	83951		0.924 4927	9851		0.401 0300	4270	
	14.5	0.119 5977	84032	7374	0.925 4778	9201	805	0.401 4570	3988	349
	15.0	0.111 1945	84108		0.926 3979	8549		0.401 8558	3707	
	15.5	0.102 7837	84178	7388	0.927 2528	7898	692	0.402 2265	3424	300
	16.0	+0.094 3659	84242		+0.928 0426	7246		+0.402 5689	3142	
	16.5	0.085 9417	84300	+7400	0.928 7672	6595	−579	0.402 8831	2859	−251
	17.0	0.077 5117	84353		0.929 4267	5942		0.403 1690	2577	
	17.5	0.069 0764	84401	7410	0.930 0209	5290	466	0.403 4267	2294	202
	18.0	0.060 6363	84443		0.930 5499	4638		0.403 6561	2011	
	18.5	0.052 1920	84480	7418	0.931 0137	3985	353	0.403 8572	1729	153
	19.0	0.043 7440	84512		0.931 4122	3333		0.404 0301	1446	
	19.5	0.035 2928	84537	7424	0.931 7455	2679	239	0.404 1747	1162	104
	20.0	0.026 8391			0.932 0134			0.404 2909		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
Juni 20.0	0.026 8391	84557		0.932 0134	2026		0.404 2909	880	
20.5	0.018 3834	84572	+7428	0.932 2160	1372	— 126	0.404 3789	596	— 54
21.0	0.009 9262	84580		0.932 3532	717		0.404 4385	313	
21.5	0.001 4682		7429	0.932 4249		— 12	0.404 4698		— 5
	—	84584		+	63		+	29	
22.0	0.006 9902	84582		0.932 4312	592		0.404 4727	255	
22.5	0.015 4484	84574	7428	0.932 3720	1247	+ 101	0.404 4472	538	+ 45
23.0	0.023 9058	84560		0.932 2473	1902		0.404 3934	822	
23.5	0.032 3618	84541	7425	0.932 0571	2556	215	0.404 3112	1106	94
24.0	0.040 8159	84516		0.931 8015	3211		0.404 2006	1390	
24.5	0.049 2675		7421	0.931 4804		328	0.404 0616		143
	—	84484		+	3866		+	1674	
25.0	0.057 7159	84447		0.931 0938	4521		0.403 8942	1958	
25.5	0.066 1606	84404	+7415	0.930 6417	5176	+ 441	0.403 6984	2242	+192
26.0	0.074 6010	84355		0.930 1241	5831		0.403 4742	2526	
26.5	0.083 0365	84300	7407	0.929 5410	6486	554	0.403 2216	2810	241
27.0	0.091 4665	84240		0.928 8924	7140		0.402 9406	3095	
27.5	0.099 8905	84174	7396	0.928 1784	7795	667	0.402 6311	3379	290
28.0	0.108 3079	84102		0.927 3989	8450		0.402 2932	3663	
28.5	0.116 7181	84022	7383	0.926 5539	9103	780	0.401 9269	3947	339
29.0	0.125 1203	83937		0.925 6436	9756		0.401 5322	4230	
29.5	0.133 5140		7368	0.924 6680		892	0.401 1092		388
	—	83845		+	10410		+	4513	
30.0	0.141 8985	83748		0.923 6270	11062		0.400 6579	4797	
30.5	0.150 2733	83645	+7351	0.922 5208	11715	+1005	0.400 1782	5080	+437
Juli 1.0	0.158 6378	83536		0.921 3493	12367		0.399 6702	5363	
1.5	0.166 9914	83419	7332	0.920 1126	13019	1117	0.399 1339	5646	486
2.0	0.175 3333	83297		0.918 8107	13669		0.398 5693	5929	
2.5	0.183 6630	83168	7311	0.917 4438	14319	1229	0.397 9764	6211	535
3.0	0.191 9798	83033		0.916 0119	14967		0.397 3553	6493	
3.5	0.200 2831	82891	7287	0.914 5152	15614	1340	0.396 7060	6774	583
4.0	0.208 5722	82743		0.912 9538	16261		0.396 0286	7055	
4.5	0.216 8465		7261	0.911 3277		1451	0.395 3231		631
	—	82589		+	16905		+	7336	
5.0	0.225 1054	82428		0.909 6372	17549		0.394 5895	7615	
5.5	0.233 3482	82261	+7234	0.907 8823	18192	+1562	0.393 8280	7894	+679
6.0	0.241 5743	82088		0.906 0631	18833		0.393 0386	8172	
6.5	0.249 7831	81908	7205	0.904 1798	19471	1672	0.392 2214	8449	727
7.0	0.257 9739	81723		0.902 2327	20108		0.391 3765	8726	
7.5	0.266 1462	81532	7173	0.900 2219	20743	1782	0.390 5039	9002	775
8.0	0.274 2994	81335		0.898 1476	21376		0.389 6037	9277	
8.5	0.282 4329	81131	7139	0.896 0100	22008	1891	0.388 6760	9550	823
9.0	0.290 5460			0.893 8092			0.387 7210		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Juli 9.0	0.290 5460	80922		0.893 8092	22636		0.387 7210	9823	
9.5	0.298 6382	80708	+7104	0.891 5456	23264	+2000	0.386 7387	10095	+ 870
10.0	0.306 7090	80487		0.889 2192	23890		0.385 7292	10366	
10.5	0.314 7577	80261	7067	0.886 8302	24513	2108	0.384 6926	10637	917
11.0	0.322 7838	80030		0.884 3789	25135		0.383 6289	10906	
11.5	0.330 7868	79794	7027	0.881 8654	25753	2215	0.382 5383	11174	963
12.0	0.338 7662	79552		0.879 2901	26370		0.381 4209	11442	
12.5	0.346 7214	79304	6985	0.876 6531	26985	2322	0.380 2767	11708	1009
13.0	0.354 6518	79052		0.873 9546	27597		0.379 1059	11973	
13.5	0.362 5570		6942	0.871 1949		2428	0.377 9086		1055
	—	78795		+	28208		+	12238	
14.0	0.370 4365	78532		0.868 3741	28815		0.376 6848	12501	
14.5	0.378 2897	78265	+6897	0.865 4926	29422	+2533	0.375 4347	12763	+1101
15.0	0.386 1162	77992		0.862 5504	30026		0.374 1584	13025	
15.5	0.393 9154	77714	6850	0.859 5478	30628	2638	0.372 8559	13286	1147
16.0	0.401 6868	77430		0.856 4850	31229		0.371 5273	13546	
16.5	0.409 4298	77143	6801	0.853 3621	31826	2742	0.370 1727	13805	1192
17.0	0.417 1441	76850		0.850 1795	32422		0.368 7922	14063	
17.5	0.424 8291	76552	6750	0.846 9373	33015	2846	0.367 3859	14320	1237
18.0	0.432 4843	76249		0.843 6358	33607		0.365 9539	14577	
18.5	0.440 1092		6697	0.840 2751		2949	0.364 4962		1282
	—	75942		+	34197		+	14833	
19.0	0.447 7034	75628		0.836 8554	34784		0.363 0129	15087	
19.5	0.455 2662	75309	+6642	0.833 3770	35371	+3050	0.361 5042	15341	+1326
20.0	0.462 7971	74986		0.829 8399	35954		0.359 9701	15593	
20.5	0.470 2957	74657	6585	0.826 2445	36535	3150	0.358 4108	15845	1370
21.0	0.477 7614	74323		0.822 5910	37114		0.356 8263	16096	
21.5	0.485 1937	73985	6526	0.818 8796	37690	3250	0.355 2167	16346	1413
22.0	0.492 5922	73641		0.815 1106	38264		0.353 5821	16595	
22.5	0.499 9563	73292	6466	0.811 2842	38836	3349	0.351 9226	16843	1456
23.0	0.507 2855	72937		0.807 4006	39406		0.350 2383	17090	
23.5	0.514 5792		6403	0.803 4600		3447	0.348 5293		1499
	—	72578		+	39972		+	17337	
24.0	0.521 8370	72213		0.799 4628	40537		0.346 7956	17582	
24.5	0.529 0583	71844	+6339	0.795 4091	41099	+3544	0.345 0374	17825	+1542
25.0	0.536 2427	71468		0.791 2992	41660		0.343 2549	18068	
25.5	0.543 3895	71087	6273	0.787 1332	42217	3640	0.341 4481	18311	1584
26.0	0.550 4982	70702		0.782 9115	42772		0.339 6170	18552	
26.5	0.557 5684	70311	6205	0.778 6343	43325	3735	0.337 7618	18791	1625
27.0	0.564 5995	69915		0.774 3018	43874		0.335 8827	19030	
27.5	0.571 5910	69514	6136	0.769 9144	44421	3829	0.333 9797	19268	1666
28.0	0.578 5424			0.765 4723			0.332 0529		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913		X	Diff.	Red. auf 1910.0	Y	Diff.	Red. auf 1910.0	Z	Diff.	Red. auf 1910.0
		—			+			+		
Juli	28.0	0.578 5424	69107		0.765 4723	44965		0.332 0529	19505	
	28.5	0.585 4531	68695	+6065	0.760 9758	45506	+3922	0.330 1024	19739	+1707
	29.0	0.592 3226	68277		0.756 4252	46045		0.328 1285	19973	
	29.5	0.599 1503	67855	5992	0.751 8207	46580	4014	0.326 1312	20205	1747
	30.0	0.605 9358	67426		0.747 1627	47112		0.324 1107	20437	
	30.5	0.612 6784	66992	5917	0.742 4515	47640	4105	0.322 0670	20667	1786
	31.0	0.619 3776	66554		0.737 6875	48165		0.320 0003	20895	
	31.5	0.626 0330	66109	5841	0.732 8710	48688	4194	0.317 9108	21122	1825
Aug.	1.0	0.632 6439	65659		0.728 0022	49207		0.315 7986	21347	
	1.5	0.639 2098	65205	5763	0.723 0815	49723	4282	0.313 6639	21571	1863
		—			+			+		
	2.0	0.645 7303	64746		0.718 1092	50235		0.311 5068	21794	
	2.5	0.652 2049	64281	+5683	0.713 0857	50743	+4369	0.309 3274	22015	+1901
	3.0	0.658 6330	63810		0.708 0114	51248		0.307 1259	22234	
	3.5	0.665 0140	63334	5602	0.702 8866	51747	4455	0.304 9025	22451	1938
	4.0	0.671 3474	62855		0.697 7119	52243		0.302 6574	22666	
	4.5	0.677 6329	62370	5519	0.692 4876	52735	4540	0.300 3908	22879	1975
	5.0	0.683 8699	61880		0.687 2141	53222		0.298 1029	23090	
	5.5	0.690 0579	61386	5435	0.681 8919	53705	4624	0.295 7939	23300	2011
	6.0	0.696 1965	60888		0.676 5214	54184		0.293 4639	23508	
	6.5	0.702 2853	60385	5349	0.671 1030	54659	4706	0.291 1131	23714	2047
		—			+			+		
	7.0	0.708 3238	59879		0.665 6371	55131		0.288 7417	23918	
	7.5	0.714 3117	59368	+5262	0.660 1240	55598	+4787	0.286 3499	24121	+2082
	8.0	0.720 2485	58853		0.654 5642	56060		0.283 9378	24321	
	8.5	0.726 1338	58335	5173	0.648 9582	56518	4866	0.281 5057	24519	2116
	9.0	0.731 9673	57812		0.643 3064	56972		0.279 0538	24716	
	9.5	0.737 7485	57285	5083	0.637 6092	57422	4944	0.276 5822	24910	2150
	10.0	0.743 4770	56754		0.631 8670	57867		0.274 0912	25103	
	10.5	0.749 1524	56220	4991	0.626 0803	58309	5020	0.271 5809	25295	2183
	11.0	0.754 7744	55683		0.620 2494	58747		0.269 0514	25484	
	11.5	0.760 3427	55141	4898	0.614 3747	59180	5095	0.266 5030	25672	2216
		—			+			+		
	12.0	0.765 8568	54597		0.608 4567	59610		0.263 9358	25858	
	12.5	0.771 3165	54048	+4803	0.602 4957	60035	+5169	0.261 3500	26041	+2248
	13.0	0.776 7213	53496		0.596 4922	60456		0.258 7459	26224	
	13.5	0.782 0709	52941	4707	0.590 4466	60873	5241	0.256 1235	26404	2279
	14.0	0.787 3650	52381		0.584 3593	61286		0.253 4831	26583	
	14.5	0.792 6031	51819	4610	0.578 2307	61695	5311	0.250 8248	26760	2310
	15.0	0.797 7850	51252		0.572 0612	62100		0.248 1488	26936	
	15.5	0.802 9102	50683	4511	0.565 8512	62501	5380	0.245 4552	27110	2340
	16.0	0.807 9785			0.559 6011			0.242 7442		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Aug. 16.0	0.807 9785			0.559 6011			0.242 7442		
		50110			62898			27282	
16.5	0.812 9895		+4411	0.553 3113		+5448	0.240 0160		+2370
		49533			63290			27451	
17.0	0.817 9428			0.546 9823			0.237 2709		
		48953			63679			27620	
17.5	0.822 8381		4310	0.540 6144		5514	0.234 5089		2399
		48370			64064			27786	
18.0	0.827 6751			0.534 2080			0.231 7303		
		47782			64444			27951	
18.5	0.832 4533		4207	0.527 7636		5579	0.228 9352		2427
		47191			64820			28115	
19.0	0.837 1724			0.521 2816			0.226 1237		
		46597			65192			28276	
19.5	0.841 8321		4104	0.514 7624		5642	0.223 2961		2454
		45999			65559			28436	
20.0	0.846 4320			0.508 2065			0.220 4525		
		45397			65923			28593	
20.5	0.850 9717		3999	0.501 6142		5703	0.217 5932		2481
	—	44792		+	66283		+	28749	
21.0	0.855 4509			0.494 9859			0.214 7183		
		44185			66637			28903	
21.5	0.859 8694		+3893	0.488 3222		+5763	0.211 8280		+2507
		43573			66988			29056	
22.0	0.864 2267			0.481 6234			0.208 9224		
		42958			67334			29206	
22.5	0.868 5225		3786	0.474 8900		5821	0.206 0018		2532
		42339			67676			29354	
23.0	0.872 7564			0.468 1224			0.203 0664		
		41718			68014			29501	
23.5	0.876 9282		3678	0.461 3210		5877	0.200 1163		2556
		41092			68346			29647	
24.0	0.881 0374			0.454 4864			0.197 1516		
		40464			68675			29790	
24.5	0.885 0838		3569	0.447 6189		5932	0.194 1726		2580
		39831			68999			29930	
25.0	0.889 0669			0.440 7190			0.191 1796		
		39195			69318			30068	
25.5	0.892 9864		3458	0.433 7872		5985	0.188 1728		2603
	—	38556		+	69632		+	30205	
26.0	0.896 8420			0.426 8240			0.185 1523		
		37914			69942			30340	
26.5	0.900 6334		+3347	0.419 8298		+6037	0.182 1183		+2626
		37268			70247			30473	
27.0	0.904 3602			0.412 8051			0.179 0710		
		36618			70547			30603	
27.5	0.908 0220		3235	0.405 7504		6086	0.176 0107		2648
		35965			70842			30732	
28.0	0.911 6185			0.398 6662			0.172 9375		
		35309			71132			30858	
28.5	0.915 1494		3122	0.391 5530		6134	0.169 8517		2668
		34649			71417			30982	
29.0	0.918 6143			0.384 4113			0.166 7535		
		33987			71696			31104	
29.5	0.922 0130		3008	0.377 2417		6180	0.163 6431		2688
		33321			71971			31223	
30.0	0.925 3451			0.370 0446			0.160 5208		
		32652			72240			31339	
30.5	0.928 6103		2893	0.362 8206		6224	0.157 3869		2707
	—	31981		+	72504		+	31454	
31.0	0.931 8084			0.355 5702			0.154 2415		
		31306			72762			31566	
31.5	0.934 9390		+2777	0.348 2940		+6266	0.151 0849		+2725
		30628			73013			31676	
Sept. 1.0	0.938 0018			0.340 9927			0.147 9173		
		29948			73260			31783	
1.5	0.940 9966		2661	0.333 6667		6307	0.144 7390		2743
		29266			73501			31887	
2.0	0.943 9232			0.326 3166			0.141 5503		
		28581			73736			31989	
2.5	0.946 7813		2544	0.318 9430		6346	0.138 3514		2760
		27893			73966			32089	
3.0	0.949 5706			0.311 5464			0.135 1425		
		27203			74189			32186	
3.5	0.952 2909		2426	0.304 1275		6383	0.131 9239		2776
		26512			74407			32280	
4.0	0.954 9421			0.296 6868			0.128 6959		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Sept. 4.0	0.954 9421	25818		0.296 6868	74619		0.128 6959	32371	
4.5	0.957 5239	25123	+ 2307	0.289 2249	74826	+ 6418	0.125 4588	32461	+ 2791
5.0	0.960 0362	24426		0.281 7423	75027		0.122 2127	32548	
5.5	0.962 4788	23729	2188	0.274 2396	75221	6451	0.118 9579	32632	2806
6.0	0.964 8517	23029		0.266 7175	75411		0.115 6947	32714	
6.5	0.967 1546	22328	2068	0.259 1764	75595	6483	0.112 4233	32793	2820
7.0	0.969 3874	21626		0.251 6169	75773		0.109 1440	32870	
7.5	0.971 5500	20922	1947	0.244 0396	75946	6512	0.105 8570	32945	2833
8.0	0.973 6422	20216		0.236 4450	76113		0.102 5625	33017	
8.5	0.975 6638		1826	0.228 8337		6539	0.099 2608		2845
	—	19510		+	76276		+	33087	
9.0	0.977 6148	18802		0.221 2061	76433		0.095 9521	33154	
9.5	0.979 4950	18093	+ 1704	0.213 5628	76585	+ 6565	0.092 6367	33220	+ 2856
10.0	0.981 3043	17382		0.205 9043	76730		0.089 3147	33283	
10.5	0.983 0425	16671	1582	0.198 2313	76871	6589	0.085 9864	33343	2866
11.0	0.984 7096	15959		0.190 5442	77007		0.082 6521	33402	
11.5	0.986 3055	15245	1459	0.182 8435	77137	6611	0.079 3119	33459	2876
12.0	0.987 8300	14530		0.175 1298	77262		0.075 9660	33512	
12.5	0.989 2830	13814	1336	0.167 4036	77382	6631	0.072 6148	33564	2885
13.0	0.990 6644	13097		0.159 6654	77496		0.069 2584	33614	
13.5	0.991 9741		1213	0.151 9158		6649	0.065 8970		2892
	—	12379		+	77604		+	33660	
14.0	0.993 2120	11659		0.144 1554	77708		0.062 5310	33705	
14.5	0.994 3779	10940	+ 1089	0.136 3846	77807	+ 6665	0.059 1605	33748	+ 2899
15.0	0.995 4719	10219		0.128 6039	77901		0.055 7857	33788	
15.5	0.996 4938	9497	965	0.120 8138	77988	6679	0.052 4069	33827	2905
16.0	0.997 4435	8773		0.113 0150	78071		0.049 0242	33863	
16.5	0.998 3208	8048	841	0.105 2079	78148	6691	0.045 6379	33897	2910
17.0	0.999 1256	7323		0.097 3931	78220		0.042 2482	33928	
17.5	0.999 8579	6598	716	0.089 5711	78286	6702	0.038 8554	33956	2915
18.0	1.000 5177	5870		0.081 7425	78347		0.035 4598	33983	
18.5	1.001 1047		591	0.073 9078		6710	0.032 0615		2919
	—	5141		+	78403		+	34008	
19.0	1.001 6188	4413		0.066 0675	78454		0.028 6607	34030	
19.5	1.002 0601	3684	+ 466	0.058 2221	78499	+ 6716	0.025 2577	34049	+ 2921
20.0	1.002 4285	2954		0.050 3722	78538		0.021 8528	34066	
20.5	1.002 7239	2223	341	0.042 5184	78571	6721	0.018 4462	34082	2923
21.0	1.002 9462	1490		0.034 6613	78599		0.015 0380	34095	
21.5	1.003 0952	758	216	0.026 8014	78622	6724	0.011 6285	34105	2924
22.0	1.003 1710	24		0.018 9392	78640		0.008 2180	34112	
22.5	1.003 1734	— 710	+ 90	0.011 0752	78652	6725	0.004 8068	34118	2925
23.0	1.003 1024			0.003 2100			0.001 3950		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	−			+			+		
Sept. 23.0	1.003 1024			0.003 2100			0.001 3950		
	—	1446		—	78658		—	34122	
23.5	1.002 9578		− 35	0.004 6558		+6724	0.002 0172		+2924
		2182			78659			34123	
24.0	1.002 7396			0.012 5217			0.005 4295		
		2919			78653			34120	
24.5	1.002 4477		160	0.020 3870		6720	0.008 8415		2923
		3655			78641			34116	
25.0	1.002 0822			0.028 2511			0.012 2531		
		4393			78624			34108	
25.5	1.001 6429		285	0.036 1135		6714	0.015 6639		2920
		5131			78601			34099	
26.0	1.001 1298			0.043 9736			0.019 0738		
		5870			78572			34087	
26.5	1.000 5428		410	0.051 8308		6706	0.022 4825		2917
		6608			78536			34071	
27.0	0.999 8820			0.059 6844			0.025 8896		
		7347			78495			34053	
27.5	0.999 1473		535	0.067 5339		6697	0.029 2949		2913
	—	8086		—	78447		—	34032	
28.0	0.998 3387			0.075 3786			0.032 6981		
		8826			78393			34009	
28.5	0.997 4561		− 660	0.083 2179		+6686	0.036 0990		+2908
		9564			78332			33983	
29.0	0.996 4997			0.091 0511			0.039 4973		
		10303			78266			33954	
29.5	0.995 4694		785	0.098 8777		6673	0.042 8927		2902
		11042			78192			33923	
30.0	0.994 3652			0.106 6969			0.046 2850		
		11780			78113			33888	
30.5	0.993 1872		910	0.114 5082		6658	0.049 6738		2895
		12516			78027			33850	
Okt. 1.0	0.991 9356			0.122 3109			0.053 0588		
		13253			77935			33810	
1.5	0.990 6103		1034	0.130 1044		6641	0.056 4398		2888
		13988			77838			33768	
2.0	0.989 2115			0.137 8882			0.059 8166		
		14723			77734			33722	
2.5	0.987 7392		1158	0.145 6616		6622	0.063 1888		2880
	—	15455		—	77623		—	33674	
3.0	0.986 1937			0.153 4239			0.066 5562		
		16186			77506			33623	
3.5	0.984 5751		−1282	0.161 1745		+6600	0.069 9185		+2870
		16916			77384			33569	
4.0	0.982 8835			0.168 9129			0.073 2754		
		17645			77255			33513	
4.5	0.981 1190		1405	0.176 6384		6577	0.076 6267		2860
		18373			77120			33454	
5.0	0.979 2817			0.184 3504			0.079 9721		
		19099			76980			33393	
5.5	0.977 3718		1528	0.192 0484		6552	0.083 3114		2849
		19823			76834			33330	
6.0	0.975 3895			0.199 7318			0.086 6444		
		20546			76683			33264	
6.5	0.973 3349		1650	0.207 4001		6525	0.089 9708		2837
		21266			76525			33195	
7.0	0.971 2083			0.215 0526			0.093 2903		
		21986			76362			33124	
7.5	0.969 0097		1772	0.222 6888		6496	0.096 6027		2825
	—	22703		—	76194		—	33050	
8.0	0.966 7394			0.230 3082			0.099 9077		
		23418			76020			32974	
8.5	0.964 3976		−1893	0.237 9102		+6465	0.103 2051		+2811
		24132			75840			32896	
9.0	0.961 9844			0.245 4942			0.106 4947		
		24845			75656			32816	
9.5	0.959 4999		2014	0.253 0598		6432	0.109 7763		2797
		25555			75465			32733	
10.0	0.956 9444			0.260 6063			0.113 0496		
		26264			75270			32648	
10.5	0.954 3180		2134	0.268 1333		6397	0.116 3144		2782
		26971			75069			32560	
11.0	0.951 6209			0.275 6402			0.119 5704		
		27677			74862			32470	
11.5	0.948 8532		2253	0.283 1264		6361	0.122 8174		2767
		28379			74650			32379	
12.0	0.946 0153			0.290 5914			0.126 0553		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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Okt. 12.0	0.946 0153	29080		0.290 5914	74433		0.126 0553	32285	
12.5	0.943 1073	29779	−2372	0.298 0347	74210	+6322	0.129 2838	32188	+2751
13.0	0.940 1294	30476		0.305 4557	73983		0.132 5026	32089	
13.5	0.937 0818	31171	2490	0.312 8540	73750	6282	0.135 7115	31989	2733
14.0	0.933 9647	31865		0.320 2290	73512		0.138 9104	31885	
14.5	0.930 7782	32557	2607	0.327 5802	73268	6240	0.142 0989	31779	2714
15.0	0.927 5225	33247		0.334 9070	73019		0.145 2768	31671	
15.5	0.924 1978	33934	2724	0.342 2089	72765	6196	0.148 4439	31562	2695
16.0	0.920 8044	34619		0.349 4854	72505		0.151 6001	31449	
16.5	0.917 3425	35302	2840	0.356 7359	72241	6150	0.154 7450	31335	2675
	—			—			—		
17.0	0.913 8123	35984		0.363 9600	71971		0.157 8785	31218	
17.5	0.910 2139	36662	−2955	0.371 1571	71696	+6102	0.161 0003	31099	+2654
18.0	0.906 5477	37339		0.378 3267	71416		0.164 1102	30978	
18.5	0.902 8138	38014	3069	0.385 4683	71131	6052	0.167 2080	30855	2632
19.0	0.899 0124	38687		0.392 5814	70840		0.170 2935	30729	
19.5	0.895 1437	39357	3182	0.399 6654	70544	6001	0.173 3664	30601	2610
20.0	0.891 2080	40026		0.406 7198	70242		0.176 4265	30470	
20.5	0.887 2054	40692	3294	0.413 7440	69935	5948	0.179 4735	30338	2587
21.0	0.883 1362	41356		0.420 7375	69622		0.182 5073	30203	
21.5	0.879 0006	42018	3405	0.427 6997	69305	5893	0.185 5276	30065	2563
	—			—			—		
22.0	0.874 7988	42676		0.434 6302	68982		0.188 5341	29926	
22.5	0.870 5312	43332	−3516	0.441 5284	68653	+5836	0.191 5267	29783	+2538
23.0	0.866 1980	43986		0.448 3937	68319		0.194 5050	29639	
23.5	0.861 7994	44637	3625	0.455 2256	67979	5778	0.197 4689	29491	2513
24.0	0.857 3357	45286		0.462 0235	67634		0.200 4180	29342	
24.5	0.852 8071	45932	3733	0.468 7869	67283	5718	0.203 3522	29189	2487
25.0	0.848 2139	46574		0.475 5152	66927		0.206 2711	29035	
25.5	0.843 5565	47214	3840	0.482 2079	66565	5656	0.209 1746	28878	2460
26.0	0.838 8351	47851		0.488 8644	66197		0.212 0624	28719	
26.5	0.834 0500	48485	3946	0.495 4841	65824	5592	0.214 9343	28557	2432
	—			—			—		
27.0	0.829 2015	49115		0.502 0665	65445		0.217 7900	28393	
27.5	0.824 2900	49741	−4050	0.508 6110	65060	+5527	0.220 6293	28226	+2404
28.0	0.819 3159	50364		0.515 1170	64670		0.223 4519	28056	
28.5	0.814 2795	50984	4154	0.521 5840	64275	5460	0.226 2575	27884	2375
29.0	0.809 1811	51599		0.528 0115	63873		0.229 0459	27710	
29.5	0.804 0212	52211	4256	0.534 3988	63467	5391	0.231 8169	27534	2345
30.0	0.798 8001	52818		0.540 7455	63055		0.234 5703	27355	
30.5	0.793 5183	53420	4357	0.547 0510	62639	5321	0.237 3058	27173	2314
31.0	0.788 1763			0.553 3149			0.240 0231		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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Okt. 31.0	0.788 1763	54019		0.553 3149	62217		0.240 0231	26990	
31.5	0.782 7744	54612	−4456	0.559 5366	61789	+5249	0.242 7221	26804	+2283
Nov. 1.0	0.777 3132	55202		0.565 7155	61357		0.245 4025	26616	
1.5	0.771 7930	55787	4554	0.571 8512	60919	5175	0.248 0641	26426	2251
2.0	0.766 2143	56369		0.577 9431	60477		0.250 7067	26233	
2.5	0.760 5774	56946	4651	0.583 9908	60031	5100	0.253 3300	26039	2218
3.0	0.754 8828	57517		0.589 9939	59580		0.255 9339	25844	
3.5	0.749 1311	58084	4746	0.595 9519	59125	5023	0.258 5183	25646	2185
4.0	0.743 3227	58646		0.601 8644	58665		0.261 0829	25446	
4.5	0.737 4581		4840	0.607 7309		4945	0.263 6275		2151
	—	59203		—	58200		—	25244	
5.0	0.731 5378	59757		0.613 5509	57731		0.266 1519	25041	
5.5	0.725 5621	60306	−4933	0.619 3240	57258	+4865	0.268 6560	24835	+2116
6.0	0.719 5315	60849		0.625 0498	56780		0.271 1395	24627	
6.5	0.713 4466	61388	5024	0.630 7278	56299	4784	0.273 6022	24419	2081
7.0	0.707 3078	61924		0.636 3577	55813		0.276 0441	24208	
7.5	0.701 1154	62454	5113	0.641 9390	55323	4701	0.278 4649	23995	2045
8.0	0.694 8700	62980		0.647 4713	54830		0.280 8644	23781	
8.5	0.688 5720	63500	5201	0.652 9543	54332	4617	0.283 2425	23566	2008
9.0	0.682 2220	64017		0.658 3875	53831		0.285 5991	23348	
9.5	0.675 8203		5287	0.663 7706		4532	0.287 9339		1971
	—	64529		—	53325		—	23128	
10.0	0.669 3674	65036		0.669 1031	52815		0.290 2467	22907	
10.5	0.662 8638	65537	−5372	0.674 3846	52301	+4445	0.292 5374	22684	+1933
11.0	0.656 3101	66035		0.679 6147	51783		0.294 8058	22460	
11.5	0.649 7066	66527	5455	0.684 7930	51262	4357	0.297 0518	22234	1895
12.0	0.643 0539	67015		0.689 9192	50737		0.299 2752	22006	
12.5	0.636 3524	67497	5536	0.694 9929	50208	4268	0.301 4758	21778	1856
13.0	0.629 6027	67976		0.700 0137	49675		0.303 6536	21547	
13.5	0.622 8051	68450	5615	0.704 9812	49140	4177	0.305 8083	21314	1817
14.0	0.615 9601	68919		0.709 8952	48600		0.307 9397	21081	
14.5	0.609 0682		5693	0.714 7552		4085	0.310 0478		1777
	—	69382		—	48057		—	20845	
15.0	0.602 1300	69842		0.719 5609	47509		0.312 1323	20608	
15.5	0.595 1458	70297	−5769	0.724 3118	46958	+3992	0.314 1931	20369	+1736
16.0	0.588 1161	70747		0.729 0076	46404		0.316 2300	20129	
16.5	0.581 0414	71192	5844	0.733 6480	45845	3897	0.318 2429	19887	1695
17.0	0.573 9222	71632		0.738 2325	45283		0.320 2316	19644	
17.5	0.566 7590	72067	5917	0.742 7608	44717	3801	0.322 1960	19400	1653
18.0	0.559 5523	72498		0.747 2325	44148		0.324 1360	19153	
18.5	0.552 3025	72923	5988	0.751 6473	43575	3704	0.326 0513	18904	1611
19.0	0.545 0102			0.756 0048			0.327 9417		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			—			—		
Nov. 19.0	0.545 0102	73344		0.756 0048	42998		0.327 9417	18654	
19.5	0.537 6758	73759	−6057	0.760 3046	42418	+3606	0.329 8071	18403	+1568
20.0	0.530 2999	74169		0.764 5464	41833		0.331 6474	18149	
20.5	0.522 8830	74574	6124	0.768 7297	41246	3507	0.333 4623	17895	1525
21.0	0.515 4256	74974		0.772 8543	40654		0.335 2518	17638	
21.5	0.507 9282	75368	6189	0.776 9197	40058	3407	0.337 0156	17381	1481
22.0	0.500 3914	75757		0.780 9255	39459		0.338 7537	17121	
22.5	0.492 8157	76139	6253	0.784 8714	38856	3305	0.340 4658	16859	1437
23.0	0.485 2018	76517		0.788 7570	38250		0.342 1517	16596	
23.5	0.477 5501		6315	0.792 5820		3203	0.343 8113		1393
	—	76888		—	37640		—	16332	
24.0	0.469 8613	77254		0.796 3460	37027		0.345 4445	16065	
24.5	0.462 1359	77614	−6374	0.800 0487	36411	+3100	0.347 0510	15797	+1348
25.0	0.454 3745	77968		0.803 6898	35791		0.348 6307	15527	
25.5	0.446 5777	78315	6431	0.807 2689	35166	2996	0.350 1834	15257	1303
26.0	0.438 7462	78657		0.810 7855	34539		0.351 7091	14984	
26.5	0.430 8805	78993	6487	0.814 2394	33909	2891	0.353 2075	14711	1257
27.0	0.422 9812	79321		0.817 6303	33276		0.354 6786	14436	
27.5	0.415 0491	79642	6540	0.820 9579	32639	2785	0.356 1222	14159	1211
28.0	0.407 0849	79958		0.824 2218	32000		0.357 5381	13882	
28.5	0.399 0891		6592	0.827 4218		2678	0.358 9263		1164
	—	80266		—	31359		—	13603	
29.0	0.391 0625	80569		0.830 5577	30715		0.360 2866	13323	
29.5	0.383 0056	80864	−6642	0.833 6292	30067	+2570	0.361 6189	13042	+1117
30.0	0.374 9192	81153		0.836 6359	29418		0.362 9231	12760	
30.5	0.366 8039	81434	6689	0.839 5777	28767	2461	0.364 1991	12477	1070
Dez. 1.0	0.358 6605	81710		0.842 4544	28113		0.365 4468	12193	
1.5	0.350 4895	81978	6734	0.845 2657	27457	2352	0.366 6661	11908	1023
2.0	0.342 2917	82241		0.848 0114	26798		0.367 8569	11623	
2.5	0.334 0676	82496	6777	0.850 6912	26139	2242	0.369 0192	11336	975
3.0	0.325 8180	82745		0.853 3051	25477		0.370 1528	11049	
3.5	0.317 5435		6818	0.855 8528		2131	0.371 2577		927
	—	82987		—	24813		—	10761	
4.0	0.309 2448	83223		0.858 3341	24148		0.372 3338	10472	
4.5	0.300 9225	83453	−6857	0.860 7489	23481	+2020	0.373 3810	10183	+ 879
5.0	0.292 5772	83676		0.863 0970	22812		0.374 3993	9893	
5.5	0.284 2096	83892	6894	0.865 3782	22143	1908	0.375 3886	9602	830
6.0	0.275 8204	84102		0.867 5925	21471		0.376 3488	9310	
6.5	0.267 4102	84305	6929	0.869 7396	20798	1795	0.377 2798	9018	781
7.0	0.258 9797	84502		0.871 8194	20123		0.378 1816	8726	
7.5	0.250 5295	84693	6962	0.873 8317	19447	1682	0.379 0542	8433	732
8.0	0.242 0602			0.875 7764			0.379 8975		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	*X*		Red. auf 1910.0	*Y*		Red. auf 1910.0	*Z*		Red. auf 1910.0
	—			—			—		
Dez. 8.0	0.242 0602	84876		0.875 7764	18769		0.379 8975	8139	
8.5	0.233 5726	85053	—6992	0.877 6533	18090	+1568	0.380 7114	7845	+682
9.0	0.225 0673	85224		0.879 4623	17410		0.381 4959	7550	
9.5	0.216 5449	85389	7020	0.881 2033	16729	1454	0.382 2509	7254	633
10.0	0.208 0060	85548		0.882 8762	16047		0.382 9763	6959	
10.5	0.199 4512	85699	7047	0.884 4809	15364	1339	0.383 6722	6663	583
11.0	0.190 8813	85845		0.886 0173	14680		0.384 3385	6366	
11.5	0.182 2968	85984	7071	0.887 4853	13996	1224	0.384 9751	6070	533
12.0	0.173 6984	86118		0.888 8849	13310		0.385 5821	5773	
12.5	0.165 0866		7093	0.890 2159		1109	0.386 1594		483
	—	86244		—	12622		—	5475	
13.0	0.156 4622	86365		0.891 4781	11934		0.386 7069	5177	
13.5	0.147 8257	86479	—7113	0.892 6715	11244	+ 993	0.387 2246	4879	+433
14.0	0.139 1778	86588		0.893 7959	10554		0.387 7125	4579	
14.5	0.130 5190	86689	7130	0.894 8513	9863	877	0.388 1704	4280	382
15.0	0.121 8501	86785		0.895 8376	9172		0.388 5984	3980	
15.5	0.113 1716	86875	7145	0.896 7548	8479	761	0.388 9964	3680	332
16.0	0.104 4841	86958		0.897 6027	7785		0.389 3644	3379	
16.5	0.095 7883	87035	7158	0.898 3812	7091	644	0.389 7023	3079	281
17.0	0.087 0848	87106		0.899 0903	6395		0.390 0102	2777	
17.5	0.078 3742		7169	0.899 7298		527	0.390 2879		230
	—	87170		—	5699		—	2475	
18.0	0.069 6572	87228		0.900 2997	5002		0.390 5354	2173	
18.5	0.060 9344	87279	—7178	0.900 7999	4303	+ 410	0.390 7527	1871	+179
19.0	0.052 2065	87324		0.901 2302	3604		0.390 9398	1567	
19.5	0.043 4741	87361	7185	0.901 5906	2904	293	0.391 0965	1263	128
20.0	0.034 7380	87393		0.901 8810	2204		0.391 2228	959	
20.5	0.025 9987	87418	7189	0.902 1014	1503	176	0.391 3187	655	77
21.0	0.017 2569	87435		0.902 2517	801		0.391 3842	350	
21.5	0.008 5134		7191	0.902 3318		+ 58	0.391 4192		+ 26
	+	87446		—	98		—	46	
22.0	0.000 2312	87450		0.902 3416	— 605		0.391 4238	— 260	
22.5	0.008 9762		7190	0.902 2811		— 59	0.391 3978		— 25
	+	87446		—	1308		—	565	
23.0	0.017 7208	87436		0.902 1503	2012		0.391 3413	871	
23.5	0.026 4644	87419	—7187	0.901 9491	2716	— 176	0.391 2542	1176	— 76
24.0	0.035 2063	87394		0.901 6775	3420		0.391 1366	1482	
24.5	0.043 9457	87363	7182	0.901 3355	4125	293	0.390 9884	1788	127
25.0	0.052 6820	87324		0.900 9230	4829		0.390 8096	2094	
25.5	0.061 4144	87277	7175	0.900 4401	5532	410	0.390 6002	2400	178
26.0	0.070 1421	87223		0.899 8869	6236		0.390 3602	2705	
26.5	0.078 8644	87163	7166	0.899 2633	6941	527	0.390 0897	3011	229
27.0	0.087 5807			0.898 5692			0.389 7886		

Mittl. Äquator und Mittl. Äquinoktium 1913.0

1913	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Dez. 27.0	0.087 5807	87094		0.898 5692	7643		0.389 7886	3316	
27.5	0.096 2901	87019	−7154	0.897 8049	8344	− 644	0.389 4570	3621	−280
28.0	0.104 9920	86936		0.896 9705	9046		0.389 0949	3926	
28.5	0.113 6856	86846	7140	0.896 0659	9746	760	0.388 7023	4230	331
29.0	0.122 3702	86748		0.895 0913	10445		0.388 2793	4533	
29.5	0.131 0450	86644	7124	0.894 0468	11144	876	0.387 8260	4836	382
30.0	0.139 7094	86533		0.892 9324	11841		0.387 3424	5139	
30.5	0.148 3627	86414	7106	0.891 7483	12537	992	0.386 8285	5442	432
31.0	0.157 0041	86289		0.890 4946	13232		0.386 2843	5743	
31.5	0.165 6330	86156	7086	0.889 1714	13926	1108	0.385 7100	6044	482
	+			—			—		
32.0	0.174 2486	86018		0.887 7788	14617		0.385 1056	6345	
32.5	0.182 8504	85872	−7063	0.886 3171	15308	−1223	0.384 4711	6644	−532
33.0	0.191 4376	85719		0.884 7863	15998		0.383 8067	6944	
33.5	0.200 0095	85560	7038	0.883 1865	16685	1338	0.383 1123	7242	582
34.0	0.208 5655	85394		0.881 5180	17372		0.382 3881	7539	
34.5	0.217 1049		7011	0.879 7808		1453	0.381 6342		632

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 1.0	13 51 31.05	24 59.47	−13 34 6.7	−2 44 43.2	8.22331	−230	15 40.0
1.5	14 16 30.52	25 25.63	16 18 49.9	2 31 57.9	8.22101	223	15 35.1
2.0	14 41 56.15	25 55.73	18 50 47.8	2 17 25.1	8.21878	216	15 30.3
2.5	15 7 51.88	26 27.66	21 8 12.9	2 1 9.3	8.21662	207	15 25.6
3.0	15 34 19.54	26 59.08	23 9 22.2	1 43 17.1	8.21455	198	15 21.2
3.5	16 1 18.62	27 27.37	24 52 39.3	1 23 59.1	8.21257	190	15 17.0
4.0	16 28 45.99	27 49.91	26 16 38.4	1 3 30.9	8.21067	181	15 13.0
4.5	16 56 35.90	28 4.39	27 20 9.3	0 42 12.4	8.20886	171	15 9.2
5.0	17 24 40.29	28 8.97	28 2 21.7	−0 20 27.5	8.20715	163	15 5.7
5.5	17 52 49.26	28 2.73	28 22 49.2	+0 1 17.5	8.20552	−154	15 2.3
6.0	18 20 51.99	27 45.66	−28 21 31.7	0 22 35.4	8.20398	144	14 59.1
6.5	18 48 37.65	27 18.72	27 58 56.3	0 43 1.5	8.20254	132	14 56.1
7.0	19 15 56.37	26 43.66	27 15 54.8	1 2 15.0	8.20122	121	14 53.4
7.5	19 42 40.03	26 2.69	26 13 39.8	1 19 59.7	8.20001	108	14 50.9
8.0	20 8 42.72	25 18.29	24 53 40.1	1 36 5.4	8.19893	93	14 48.7
8.5	20 34 1.01	24 32.84	23 17 34.7	1 50 27.1	8.19800	76	14 46.8
9.0	20 58 33.85	23 48.47	21 27 7.6	2 3 4.8	8.19724	57	14 45.2
9.5	21 22 22.32	23 6.97	19 24 2.8	2 14 1.2	8.19667	38	14 44.1
10.0	21 45 29.29	22 29.75	17 10 1.6	2 23 21.4	8.19629	− 15	14 43.3
10.5	22 7 59.04	21 57.91	14 46 40.2	+2 31 12.1	8.19614	+ 10	14 43.0
11.0	22 29 56.95	21 32.27	−12 15 28.1	2 37 39.2	8.19624	36	14 43.2
11.5	22 51 29.22	21 13.47	9 37 48.9	2 42 49.0	8.19660	65	14 43.9
12.0	23 12 42.69	21 1.93	6 54 59.9	2 46 46.1	8.19725	94	14 45.3
12.5	23 33 44.62	20 58.09	4 8 13.8	2 49 33.2	8.19819	124	14 47.2
13.0	23 54 42.71	21 2.27	− 1 18 40.6	2 51 11.5	8.19943	156	14 49.7
13.5	0 15 44.98	21 14.83	+ 1 32 30.9	2 51 39.9	8.20099	188	14 52.9
14.0	0 36 59.81	21 36.09	4 24 10.8	2 50 53.7	8.20287	219	14 56.8
14.5	0 58 35.90	22 6.32	7 15 4.5	2 48 45.9	8.20506	249	15 1.3
15.0	1 20 42.22	22 45.75	10 3 50.4	2 45 6.7	8.20755	277	15 6.5
15.5	1 43 27.97	23 34.44	12 48 57.1	+2 39 42.6	8.21032	+303	15 12.3
16.0	2 7 2.41	24 32.12	+15 28 39.7	2 32 16.5	8.21335	327	15 18.7
16.5	2 31 34.53	25 38.14	18 0 56.2	2 22 29.8	8.21662	345	15 25.6
17.0	2 57 12.67	26 51.07	20 23 26.0	2 10 3.2	8.22007	357	15 33.0
17.5	3 24 3.74	28 8.63	22 33 29.2	1 54 37.9	8.22364	364	15 40.7
18.0	3 52 12.37	29 27.35	24 28 7.1	1 35 59.8	8.22728	364	15 48.6
18.5	4 21 39.72	30 42.68	26 4 6.9	1 14 3.9	8.23092	357	15 56.6
19.0	4 52 22.40	31 49.26	27 18 10.8	0 48 58.8	8.23449	341	16 4.5
19.5	5 24 11.66	32 41.45	28 7 9.6	+0 21 10.2	8.23790	317	16 12.1
20.0	5 56 53.11	33 14.38	28 28 19.8	−0 8 36.9	8.24107	284	16 19.2
20.5	6 30 7.49		28 19 42.9		8.24391		16 25.7

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Jan. 1 U	7 23.7	14 6 52.25	+67.19	129.37	−15 17 1.7	−843.9
O	19 47.8	14 32 58.38	+67.82	131.86	−17 59 7.3	−775.1
2 U	8 12.4	14 59 36.56	+68.54	134.69	−20 26 26.8	−696.1
O	20 37.5	15 26 49.81	+69.29	137.67	−22 37 2.5	−607.7
3 U	9 3.3	15 54 38.48	+69.99	140.54	−24 29 2.7	−510.3
O	21 29.6	16 22 59.79	+70.60	143.05	−26 0 45.3	−405.0
4 U	9 56.4	16 51 47.86	+71.06	144.93	−27 10 44.8	−293.4
O	22 23.4	17 20 53.86	+71.28	145.96	−27 57 57.7	−177.6
5 U	10 50.6	17 50 6.53	+71.27	145.98	−28 21 48.0	− 60.1
O	23 17.6	18 19 13.40	+70.99	144.94	−28 22 11.9	+ 56.3
6 U	11 44.4	18 48 1.87	+70.47	142.87	−27 59 38.8	+169.0
—	—	—	—	—	—	—
7 O	0 10.7	19 16 20.46	−69.71	140.08	−27 15 7.8	+275.7
U	12 36.3	19 43 59.84	−68.78	136.51	−26 10 2.6	+374.4
8 O	1 1.2	20 10 53.44	−67.75	132.52	−24 46 6.5	+463.9
U	13 25.2	20 36 57.65	−66.65	128.33	−23 5 13.7	+543.7
9 O	1 48.4	21 2 11.67	−65.56	124.19	−21 9 21.9	+613.7
U	14 10.8	21 26 37.22	−64.51	120.28	−19 0 28.2	+674.0
10 O	2 32.4	21 50 17.97	−63.55	116.74	−16 40 24.4	+725.4
U	14 53.4	22 13 19.15	−62.73	113.68	−14 10 54.8	+768.4
11 O	3 13.9	22 35 47.14	−62.06	111.18	−11 33 36.1	+803.8
U	15 33.9	22 57 49.12	−61.57	109.33	− 8 49 56.1	+831.9
12 O	3 53.6	23 19 32.95	−61.26	108.14	− 6 1 16.3	+853.7
U	16 13.1	23 41 6.92	−61.16	107.65	− 3 8 52.9	+869.2
13 O	4 32.6	0 2 39.73	−61.27	107.92	− 0 13 59.1	+878.8
U	16 52.3	0 24 20.52	−61.61	108.95	+ 2 42 12.9	+882.2
14 O	5 12.2	0 46 18.75	−62.16	110.80	+ 5 38 27.6	+879.1
U	17 32.6	1 8 44.34	−62.94	113.48	+ 8 33 23.7	+869.0
15 O	5 53.6	1 31 47.57	−63.97	117.04	+11 25 30.1	+850.7
U	18 15.5	1 55 38.95	−65.20	121.47	+14 13 2.3	+823.0
16 O	6 38.3	2 20 29.06	−66.66	126.79	+16 53 57.5	+784.1
U	19 2.2	2 46 28.04	−68.29	132.93	+19 25 51.0	+732.3
17 O	7 27.5	3 13 44.99	−70.06	139.75	+21 45 54.6	+665.3
U	19 54.1	3 42 26.83	−71.89	147.02	+23 50 54.5	+581.2
18 O	8 22.2	4 12 37.01	−73.71	154.40	+25 37 15.0	+478.5
U	20 51.8	4 44 13.88	−75.39	161.41	+27 1 7.3	+356.4
19 O	9 22.7	5 17 9.44	−76.80	167.46	+27 58 45.1	+216.1
U	21 54.6	5 51 8.64	−77.83	171.94	+28 26 44.7	+ 60.7
20 O	10 27.2	6 25 49.61	−78.37	174.41	+28 22 32.6	−104.8
U	23 0.1	7 0 46.01	−78.39	174.61	+27 44 48.4	−273.4

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 20.0	5 56 53.11	33 14.38	+28 28 19.8	−0 8 36.9	8.24107	+284	16 19.2
20.5	6 30 7.49	33 25.14	28 19 42.9	0 39 21.6	8.24391	244	16 25.7
21.0	7 3 32.63	33 13.29	27 40 21.3	1 9 54.4	8.24635	197	16 31.2
21.5	7 36 45.92	32 41.18	26 30 26.9	1 39 3.2	8.24832	145	16 35.7
22.0	8 9 27.10	31 53.23	24 51 23.7	2 5 44.7	8.24977	89	16 39.0
22.5	8 41 20.33	30 55.05	22 45 39.0	2 29 10.8	8.25066	+31	16 41.1
23.0	9 12 15.38	29 52.30	20 16 28.2	2 48 50.1	8.25097	−28	16 41.8
23.5	9 42 7.68	28 49.87	17 27 38.1	3 4 28.0	8.25069	84	16 41.2
24.0	10 10 57.55	27 51.70	14 23 10.1	3 16 3.9	8.24985	137	16 39.2
24.5	10 38 49.25	27 0.47	11 7 6.2	−3 23 47.1	8.24848	−185	16 36.1
25.0	11 5 49.72	26 17.87	+ 7 43 19.1	3 27 53.5	8.24663	226	16 31.9
25.5	11 32 7.59	25 44.79	4 15 25.6	3 28 42.0	8.24437	259	16 26.7
26.0	11 57 52.38	25 21.53	+ 0 46 43.6	3 26 31.9	8.24178	286	16 20.8
26.5	12 23 13.91	25 7.93	− 2 39 48.3	3 21 41.2	8.23892	305	16 14.4
27.0	12 48 21.84	25 3.53	6 1 29.5	3 14 26.9	8.23587	316	16 7.6
27.5	13 13 25.37	25 7.56	9 15 56.4	3 5 2.5	8.23271	321	16 0.6
28.0	13 38 32.93	25 19.11	12 20 58.9	2 53 39.2	8.22950	321	15 53.5
28.5	14 3 52.04	25 36.88	15 14 38.1	2 40 26.3	8.22629	314	15 46.5
29.0	14 29 28.92	25 59.36	17 55 4.4	2 25 31.3	8.22315	304	15 39.7
29.5	14 55 28.28	26 24.65	20 20 35.7	−2 9 2.2	8.22011	−291	15 33.1
30.0	15 21 52.93	26 50.73	−22 29 37.9	1 51 7.4	8.21720	275	15 26.9
30.5	15 48 43.66	27 15.21	24 20 45.3	1 31 56.8	8.21445	257	15 21.0
31.0	16 15 58.87	27 35.76	25 52 42.1	1 11 43.7	8.21188	237	15 15.6
31.5	16 43 34.63	27 50.10	27 4 25.8	0 50 44.3	8.20951	218	15 10.6
Febr. 1.0	17 11 24.73	27 56.39	27 55 10.1	0 29 17.7	8.20733	198	15 6.0
1.5	17 39 21.12	27 53.42	28 24 27.8	−0 7 45.7	8.20535	178	15 1.9
2.0	18 7 14.54	27 40.75	28 32 13.5	+0 13 28.1	8.20357	159	14 58.2
2.5	18 34 55.29	27 18.83	28 18 45.4	0 34 2.7	8.20198	140	14 55.0
3.0	19 2 14.12	26 48.81	27 44 42.7	0 53 37.7	8.20058	122	14 52.1
3.5	19 29 2.93	26 12.45	26 51 5.0	+1 11 56.4	8.19936	−105	14 49.6
4.0	19 55 15.38	25 31.81	−25 39 8.6	1 28 47.0	8.19831	87	14 47.5
4.5	20 20 47.19	24 49.05	24 10 21.6	1 44 1.4	8.19744	71	14 45.7
5.0	20 45 36.24	24 6.21	22 26 20.2	1 57 35.9	8.19673	55	14 44.2
5.5	21 9 42.45	23 25.04	20 28 44.3	2 9 30.4	8.19618	38	14 43.1
6.0	21 33 7.49	22 47.02	18 19 13.9	2 19 46.5	8.19580	20	14 42.3
6.5	21 55 54.51	22 13.34	15 59 27.4	2 28 28.0	8.19560	− 4	14 41.9
7.0	22 18 7.85	21 44.89	13 30 59.4	2 35 39.7	8.19556	+ 14	14 41.8
7.5	22 39 52.74	21 22.34	10 55 19.7	2 41 25.4	8.19570	33	14 42.1
8.0	23 1 15.08	21 6.20	8 13 54.3	2 45 50.0	8.19603	53	14 42.8
8.5	23 22 21.28		5 28 4.3		8.19656		14 43.9

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	"	° ' "	"
Jan. 20 *O*	10 27.2	6 25 49.61	−78.37	174.41	+28 22 32.6	− 104.8
U	23 0.1	7 0 46.01	−78.39	174.61	+27 44 48.4	− 273.4
21 *O*	11 32.8	7 35 31.09	−77.88	172.62	+26 33 38.2	− 437.9
—	—	—	—	—	—	—
22 *U*	0 4.9	8 9 40.29	−76.96	168.78	+24 50 37.8	− 590.6
O	12 36.1	8 42 54.72	+75.73	163.43	+22 38 42.3	− 726.1
23 *U*	1 6.2	9 15 2.72	+74.32	157.58	+20 1 43.1	− 840.6
O	13 35.1	9 45 59.57	+72.87	151.64	+17 4 5.4	− 932.3
24 *U*	2 2.8	10 15 46.62	+71.47	146.02	+13 50 26.5	−1000.8
O	14 29.5	10 44 29.59	+70.22	141.04	+10 25 18.5	−1047.2
25 *U*	2 55.2	11 12 17.28	+69.17	136.86	+ 6 52 58.5	−1073.1
O	15 20.2	11 39 20.08	+68.34	133.61	+ 3 17 20.4	−1080.5
26 *U*	3 44.7	12 5 49.19	+67.75	131.30	− 0 18 5.0	−1071.2
O	16 8.7	12 31 55.93	+67.41	129.91	− 3 50 9.5	−1047.2
27 *U*	4 32.6	12 57 51.18	+67.30	129.42	− 7 16 5.6	−1010.0
O	16 56.5	13 23 45.23	+67.40	129.74	−10 33 23.7	− 961.0
28 *U*	5 20.5	13 49 47.30	+67.68	130.77	−13 39 47.9	− 901.1
O	17 44.7	14 16 5.40	+68.12	132.41	−16 33 12.9	− 831.1
29 *U*	6 9.4	14 42 45.89	+68.68	134.51	−19 11 41.9	− 751.8
O	18 34.5	15 9 53.21	+69.29	136.87	−21 33 25.8	− 663.7
30 *U*	7 0.0	15 37 29.49	+69.90	139.28	−23 36 43.3	− 567.5
O	19 26.1	16 5 34.06	+70.46	141.53	−25 20 3.1	− 464.2
31 *U*	7 52.5	16 34 3.55	+70.90	143.37	−26 42 6.8	− 355.0
O	20 19.2	17 2 51.66	+71.19	144.58	−27 41 52.9	− 241.6
Febr. 1 *U*	8 46.2	17 31 49.77	+71.26	144.97	−28 18 42.2	− 125.8
O	21 13.1	18 0 47.44	+71.08	144.45	−28 32 20.2	− 10.1
2 *U*	9 39.8	18 29 33.42	+70.68	142.99	−28 23 1.4	+ 103.3
O	22 6.2	18 57 56.88	+70.04	140.67	−27 51 25.8	+ 212.3
3 *U*	10 32.0	19 25 48.14	+69.22	137.62	−26 58 39.0	+ 314.8
O	22 57.2	19 52 59.70	+68.26	134.06	−25 46 7.3	+ 409.5
4 *U*	11 21.6	20 19 26.48	+67.22	130.18	−24 15 30.2	+ 495.5
O	23 45.2	20 45 6.04	+66.14	126.21	−22 28 37.2	+ 572.1
5 *U*	12 8.0	21 9 58.33	+65.07	122.33	−20 27 21.6	+ 639.3
—	—	—	—	—	—	—
6 *O*	0 30.1	21 34 5.37	−64.07	118.86	−18 13 35.0	+ 697.3
U	12 51.5	21 57 30.94	−63.17	115.60	−15 49 6.3	+ 746.3
7 *O*	1 12.3	22 20 20.05	−62.39	112.79	−13 15 39.6	+ 787.0
U	13 32.6	22 42 38.76	−61.77	110.51	−10 34 52.0	+ 819.8
8 *O*	1 52.5	23 4 33.77	−61.31	108.82	− 7 48 15.4	+ 845.3
U	14 12.1	23 26 12.34	−61.03	107.75	− 4 57 16.4	+ 863.7

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Febr. 8.0	23 1 15.08	21 6.20	− 8 13 54.3	+2 45 50.0	8.19603	+ 53	14 42.8
8.5	23 22 21.28	20 56.88	5 28 4.3	2 48 56.9	8.19656	75	14 43.9
9.0	23 43 18.16	20 54.72	− 2 39 7.4	2 50 48.1	8.19731	97	14 45.4
9.5	0 4 12.88	21 0.01	+ 0 11 40.7	2 51 24.2	8.19828	120	14 47.4
10.0	0 25 12.89	21 13.03	3 3 4.9	2 50 44.4	8.19948	146	14 49.8
10.5	0 46 25.92	21 34.04	5 53 49.3	2 48 45.7	8.20094	171	14 52.8
11.0	1 7 59.96	22 3.25	8 42 35.0	2 45 22.2	8.20265	197	14 56.3
11.5	1 30 3.21	22 40.79	11 27 57.2	2 40 26.5	8.20462	222	15 0.4
12.0	1 52 44.00	23 26.62	14 8 23.7	2 33 48.1	8.20684	248	15 5.0
12.5	2 16 10.62	24 20.42	16 42 11.8	+2 25 14.6	8.20932	+273	15 10.2
13.0	2 40 31.04	25 21.44	+19 7 26.4	2 14 31.8	8.21205	296	15 16.0
13.5	3 5 52.48	26 28.40	21 21 58.2	2 1 24.5	8.21501	317	15 22.2
14.0	3 32 20.88	27 39.17	23 23 22.7	1 45 39.1	8.21818	335	15 29.0
14.5	4 0 0.05	28 50.74	25 9 1.8	1 27 5.5	8.22153	347	15 36.2
15.0	4 28 50.79	29 59.29	26 36 7.3	1 5 40.1	8.22500	354	15 43.7
15.5	4 58 50.08	31 0.34	27 41 47.4	0 41 30.2	8.22854	356	15 51.4
16.0	5 29 50.42	31 49.23	28 23 17.6	+0 14 56.5	8.23210	352	15 59.2
16.5	6 1 39.65	32 21.99	28 38 14.1	−0 13 26.3	8.23562	338	16 7.0
17.0	6 34 1.64	32 36.04	28 24 47.8	0 42 50.1	8.23900	318	16 14.6
17.5	7 6 37.68	32 30.87	27 41 57.7	−1 12 16.8	8.24218	+288	16 21.7
18.0	7 39 8.55	32 8.12	+26 29 40.9	1 40 46.0	8.24506	250	16 28.3
18.5	8 11 16.67	31 31.22	24 48 54.9	2 7 20.0	8.24756	205	16 34.0
19.0	8 42 47.89	30 44.69	22 41 34.9	2 31 10.2	8.24961	153	16 38.7
19.5	9 13 32.58	29 53.32	20 10 24.7	2 51 39.7	8.25114	96	16 42.2
20.0	9 43 25.90	29 1.53	17 18 45.0	3 8 24.4	8.25210	+ 35	16 44.4
20.5	10 12 27.43	28 12.86	14 10 20.6	3 21 12.5	8.25245	− 26	16 45.2
21.0	10 40 40.29	27 30.00	10 49 8.1	3 30 1.8	8.25219	87	16 44.6
21.5	11 8 10.29	26 54.70	7 19 6.3	3 34 58.0	8.25132	145	16 42.6
22.0	11 35 4.99	26 27.94	3 44 8.3	3 36 12.4	8.24987	198	16 39.3
22.5	12 1 32.93	26 10.08	+ 0 7 55.9	−3 33 59.8	8.24789	−246	16 34.8
23.0	12 27 43.01	26 1.07	− 3 26 3.9	3 28 36.7	8.24543	285	16 29.2
23.5	12 53 44.08	26 0.39	6 54 40.6	3 20 20.5	8.24258	317	16 22.7
24.0	13 19 44.47	26 7.20	10 15 1.1	3 9 28.0	8.23941	340	16 15.5
24.5	13 45 51.67	26 20.37	13 24 29.1	2 56 15.6	8.23601	354	16 7.9
25.0	14 12 12.04	26 38.42	16 20 44.7	2 40 58.2	8.23247	362	16 0.0
25.5	14 38 50.46	26 59.53	19 1 42.9	2 23 50.7	8.22885	361	15 52.1
26.0	15 5 49.99	27 21.65	21 25 33.6	2 5 8.5	8.22524	354	15 44.2
26.5	15 33 11.64	27 42.54	23 30 42.1	1 45 6.9	8.22170	342	15 36.5
27.0	16 0 54.18	27 59.87	25 15 49.0	1 24 3.3	8.21828	324	15 29.2
27.5	16 28 54.05		26 39 52.3		8.21504		15 22.3

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Febr. 8	O	1 52.5	23 4 33.77	−61.31	108.82	− 7 48 15.4	+ 845.3
	U	14 12.1	23 26 12.34	−61.03	107.75	− 4 57 16.4	+ 863.7
9	O	2 31.6	23 47 42.21	−60.95	107.34	− 2 3 16.8	+ 875.3
	U	14 51.0	0 9 11.40	−61.07	107.62	+ 0 52 23.0	+ 880.3
10	O	3 10.6	0 30 48.32	−61.40	108.60	+ 3 48 23.6	+ 878.8
	U	15 30.5	0 52 41.68	−61.94	110.32	+ 6 43 25.3	+ 870.3
11	O	3 50.8	1 15 0.48	−62.70	112.82	+ 9 36 1.5	+ 854.5
	U	16 11.6	1 37 54.07	−63.66	116.10	+12 24 40.1	+ 830.5
12	O	4 33.2	2 1 31.95	−64.84	120.17	+15 7 38.4	+ 797.5
	U	16 55.7	2 26 3.51	−66.20	125.01	+17 43 0.2	+ 754.4
13	O	5 19.2	2 51 37.73	−67.72	130.58	+20 8 33.1	+ 699.0
	U	17 43.9	3 18 22.65	−69.37	136.76	+22 21 46.0	+ 630.4
14	O	6 9.9	3 46 24.41	−71.08	143.34	+24 19 48.7	+ 547.0
	U	18 37.3	4 15 46.23	−72.77	150.05	+25 59 33.8	+ 447.3
15	O	7 5.9	4 46 27.21	−74.35	156.48	+27 17 44.1	+ 331.0
	U	19 35.7	5 18 21.22	−75.72	162.17	+28 11 2.0	+ 198.7
16	O	8 6.6	5 51 16.33	−76.76	166.63	+28 36 25.9	+ 52.4
	U	20 38.2	6 24 55.08	−77.39	169.44	+28 31 30.3	− 103.9
17	O	9 10.1	6 58 56.04	−77.57	170.36	+27 54 44.4	− 265.1
	U	21 42.1	7 32 56.18	−77.30	169.39	+26 45 46.6	− 424.7
18	O	10 13.7	8 6 33.96	−76.62	166.75	+25 5 31.5	− 576.8
	U	22 44.6	8 39 31.84	−75.65	162.86	+22 56 5.6	− 715.7
19	O	11 14.6	9 11 37.83	−74.50	158.21	+20 20 34.9	− 836.9
	U	23 43.7	9 42 45.90	−73.27	153.31	+17 22 50.1	− 937.6
20	O	12 11.8	10 12 55.60	−72.07	148.55	+14 7 8.0	−1016.2
—	—	—	—	—	—	—	—
21	U	0 39.0	10 42 10.77	+70.98	144.09	+10 37 56.5	−1072.4
	O	13 5.4	11 10 38.40	+70.07	140.49	+ 6 59 42.8	−1106.6
22	U	1 31.2	11 38 27.48	+69.36	137.71	+ 3 16 44.3	−1119.9
	O	13 56.5	12 5 48.00	+68.88	135.77	− 0 26 56.3	−1113.8
23	U	2 21.5	12 32 50.29	+68.62	134.70	− 4 7 35.4	−1089.8
	O	14 46.4	12 59 44.44	+68.58	134.45	− 7 41 48.3	−1049.7
24	U	3 11.3	13 26 39.86	+68.73	134.93	−11 6 30.9	− 994.9
	O	15 36.3	13 53 44.83	+69.06	136.05	−14 18 55.7	− 927.0
25	U	4 1.6	14 21 6.25	+69.51	137.67	−17 16 34.0	− 847.3
	O	16 27.3	14 48 49.14	+70.04	139.61	−19 57 12.5	− 757.1
26	U	4 53.4	15 16 56.24	+70.60	141.69	−22 18 53.3	− 657.9
	O	17 19.8	15 45 27.81	+71.13	143.64	−24 19 56.5	− 550.9
27	U	5 46.7	16 14 21.23	+71.56	145.28	−25 58 58.5	− 437.9
	O	18 13.8	16 43 31.23	+71.83	146.34	−27 14 57.7	− 320.7

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Febr. 27.0	16 0 54.18		−25 15 49.0		8.21828		15 29.2
		27 59.87		−1 24 3.3		−324	
27.5	16 28 54.05		26 39 52.3		8.21504		15 22.3
		28 11.43		1 2 16.8		304	
28.0	16 57 5.48		27 42 9.1		8.21200		15 15.9
		28 15.47		0 40 8.2		280	
28.5	17 25 20.95		28 22 17.3		8.20920		15 10.0
		28 10.76		−0 17 59.2		254	
März 1.0	17 53 31.71		28 40 16.5		8.20666		15 4.6
		27 56.89		+0 3 48.3		227	
1.5	18 21 28.60		28 36 28.2		8.20439		14 59.9
		27 34.20		0 24 53.6		200	
2.0	18 49 2.80		28 11 34.6		8.20239		14 55.8
		27 3.82		0 44 59.1		173	
2.5	19 16 6.62		27 26 35.5		8.20066		14 52.2
		26 27.33		1 3 49.6		146	
3.0	19 42 33.95		26 22 45.9		8.19920		14 49.2
		25 46.71		1 21 15.1		119	
3.5	20 8 20.66		25 1 30.8		8.19801		14 46.8
		25 3.98		+1 37 8.7		−94	
4.0	20 33 24.64		−23 24 22.1		8.19707		14 44.9
		24 21.08		1 51 26.7		70	
4.5	20 57 45.72		21 32 55.4		8.19637		14 43.5
		23 39.71		2 4 8.9		48	
5.0	21 21 25.43		19 28 46.5		8.19589		14 42.5
		23 1.26		2 15 16.4		25	
5.5	21 44 26.69		17 13 30.1		8.19564		14 42.0
		22 26.87		2 24 51.7		−5	
6.0	22 6 53.56		14 48 38.4		8.19559		14 41.9
		21 57.41		2 32 58.0		+13	
6.5	22 28 50.97		12 15 40.4		8.19572		14 42.1
		21 33.49		2 39 38.3		31	
7.0	22 50 24.46		9 36 2.1		8.19603		14 42.8
		21 15.61		2 44 55.2		47	
7.5	23 11 40.07		6 51 6.9		8.19650		14 43.7
		21 4.12		2 48 50.7		65	
8.0	23 32 44.19		4 2 16.2		8.19715		14 45.0
		20 59.25		2 51 25.8		81	
8.5	23 53 43.44		−1 10 50.4		8.19796		14 46.7
		21 1.29		+2 52 40.6		+96	
9.0	0 14 44.73		+1 41 50.2		8.19892		14 48.7
		21 10.42		2 52 33.5		112	
9.5	0 35 55.15		4 34 23.7		8.20004		14 51.0
		21 26.75		2 51 2.1		129	
10.0	0 57 21.90		7 25 25.8		8.20133		14 53.6
		21 50.44		2 48 2.5		146	
10.5	1 19 12.34		10 13 28.3		8.20279		14 56.6
		22 21.55		2 43 28.7		161	
11.0	1 41 33.89		12 56 57.0		8.20440		15 0.0
		22 59.95		2 37 13.9		177	
11.5	2 4 33.84		15 34 10.9		8.20617		15 3.7
		23 45.36		2 29 9.4		196	
12.0	2 28 19.20		18 3 20.3		8.20813		15 7.7
		24 37.21		2 19 5.8		214	
12.5	2 52 56.41		20 22 26.1		8.21027		15 12.2
		25 34.40		2 6 53.3		231	
13.0	3 18 30.81		22 29 19.4		8.21258		15 17.1
		26 35.35		1 52 23.0		248	
13.5	3 45 6.16		24 21 42.4		8.21506		15 22.4
		27 37.84		+1 35 27.8		+265	
14.0	4 12 44.00		+25 57 10.2		8.21771		15 28.0
		28 38.94		1 16 5.8		278	
14.5	4 41 22.94		27 13 16.0		8.22049		15 33.9
		29 35.26		0 54 21.2		290	
15.0	5 10 58.20		28 7 37.2		8.22339		15 40.2
		30 23.11		0 30 26.8		300	
15.5	5 41 21.31		28 38 4.0		8.22639		15 46.7
		30 59.15		+0 4 45.3		305	
16.0	6 12 20.46		28 42 49.3		8.22944		15 53.4
		31 20.79		−0 22 10.2		306	
16.5	6 43 41.25		28 20 39.1		8.23250		16 0.1
		31 26.82		0 49 39.6		301	
17.0	7 15 8.07		27 30 59.5		8.23551		16 6.8
		31 17.62		1 16 57.9		290	
17.5	7 46 25.69		26 14 1.6		8.23841		16 13.3
		30 55.16		1 43 18.7		272	
18.0	8 17 20.85		24 30 42.9		8.24113		16 19.4
		30 22.48		2 7 59.6		248	
18.5	8 47 43.33		22 22 43.3		8.24361		16 25.0

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Febr. 27	U	5 46.7	10 14 21.23	+71.56	145.28	−25 58 58.5	−437.9
	O	18 13.8	16 43 31.23	+71.83	146.34	−27 14 57.7	−320.7
28	U	6 41.0	17 12 50.03	+71.90	146.67	−28 7 15.2	−201.4
	O	19 8.3	17 42 7.99	+71.76	146.14	−28 35 38.7	− 82.1
März 1	U	7 35.4	18 11 14.57	+71.38	144.73	−28 40 21.9	+ 35.0
	O	20 2.1	18 39 59.29	+70.77	142.47	−28 22 4.8	+147.6
2	U	8 28.3	19 8 12.73	+69.97	139.51	−27 41 50.2	+254.2
	O	20 53.8	19 35 47.29	+69.02	136.01	−26 41 0.0	+353.3
3	U	9 18.6	20 2 37.69	+67.97	132.16	−25 21 9.8	+444.0
	O	21 42.6	20 28 41.07	+66.87	128.19	−23 44 3.3	+525.9
4	U	10 5.9	20 53 56.95	+65.78	124.27	−21 51 28.5	+598.7
	O	22 28.4	21 18 26.92	+64.72	120.56	−19 45 13.9	+662.6
5	U	10 50.1	21 42 14.17	+63.75	117.19	−17 27 4.8	+717.8
	O	23 10.9	22 5 23.30	+62.90	114.25	−14 58 43.7	+764.7
6	U	11 31.8	22 27 59.87	+62.18	111.80	−12 21 47.9	+803.6
	O	23 52.0	22 50 10.12	+61.61	109.89	− 9 37 51.0	+834.9
7	U	12 11.8	23 12 0.81	+61.23	108.63	− 6 48 23.0	+858.8
—		—	—	—	—	—	—
8	O	0 31.4	23 33 39.11	−61.01	107.89	− 3 54 50.5	+875.6
	U	12 50.9	23 55 12.48	−61.00	107.78	− 0 58 39.2	+885.2
9	O	1 10.5	0 16 48.59	−61.18	108.32	+ 1 58 45.6	+887.7
	U	13 30.2	0 38 35.39	−61.55	109.53	+ 4 55 56.6	+883.0
10	O	1 50.3	1 0 40.94	−62.13	111.43	+ 7 51 24.6	+870.4
	U	14 10.8	1 23 13.57	−62.91	114.02	+10 43 33.9	+849.7
11	O	2 31.9	1 46 21.64	−63.87	117.31	+13 30 42.6	+820.1
	U	14 53.8	2 10 13.42	−65.02	121.27	+16 10 59.6	+780.9
12	O	3 16.5	2 34 56.86	−66.32	125.89	+18 42 22.7	+731.0
	U	15 40.1	3 0 39.23	−67.75	131.05	+21 2 37.9	+669.3
13	O	4 4.9	3 27 26.41	−69.27	136.65	+23 9 17.6	+594.8
	U	16 30.8	3 55 22.28	−70.81	142.46	+24 59 43.6	+506.7
14	O	4 57.8	4 24 27.79	−72.30	148.21	+26 31 8.2	+404.5
	U	17 26.0	4 54 40.12	−73.65	153.56	+27 40 42.5	+288.4
15	O	5 55.1	5 25 52.07	−74.79	158.12	+28 25 45.0	+159.4
	U	18 25.1	5 57 51.99	−75.62	161.53	+28 43 54.2	+ 19.8
16	O	6 55.5	6 30 24.29	−76.08	163.53	+28 33 22.1	−126.9
	U	19 26.2	7 3 11.02	−76.17	163.98	+27 53 6.9	−276.5
17	O	7 56.9	7 35 53.71	−75.88	162.94	+26 43 1.3	−424.5
	U	20 27.2	8 8 15.65	−75.28	160.61	+25 3 54.3	−566.1
18	O	8 57.0	8 40 3.60	−74.45	157.37	+22 57 29.0	−696.9
	U	21 26.0	9 11 8.80	−73.47	153.59	+20 26 14.2	−813.7

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
März 18.0	8 17 20.85	30 22.48	+24 30 42.9	−2 7 59.6	8.24113	+248	16 19.4
18.5	8 47 43.33	29 43.42	22 22 43.3	2 30 24.2	8.24361	217	16 25.0
19.0	9 17 26.75	29 1.72	19 52 19.1	2 50 2.4	8.24578	177	16 29.9
19.5	9 46 28.47	28 20.87	17 2 16.7	3 6 32.3	8.24755	133	16 34.0
20.0	10 14 49.34	27 43.67	13 55 44.4	3 19 38.6	8.24888	83	16 37.0
20.5	10 42 33.01	27 12.27	10 36 5.8	3 29 12.9	8.24971	+ 29	16 38.9
21.0	11 9 45.28	26 48.10	7 6 52.9	3 35 11.0	8.25000	− 26	16 39.6
21.5	11 36 33.38	26 32.02	+ 3 31 41.9	3 37 32.7	8.24974	83	16 39.0
22.0	12 3 5.40	26 24.33	− 0 5 50.8	3 36 22.6	8.24891	137	16 37.1
22.5	12 29 29.73	26 24.88	3 42 13.4	−3 31 48.2	8.24754	−188	16 34.0
23.0	12 55 54.61	26 33.08	− 7 14 1.6	3 23 58.7	8.24566	234	16 29.7
23.5	13 22 27.69	26 48.03	10 38 0.3	3 13 6.6	8.24332	274	16 24.3
24.0	13 49 15.72	27 8.33	13 51 6.9	2 59 26.1	8.24058	307	16 18.1
24.5	14 16 24.05	27 32.19	16 50 33.0	2 43 13.7	8.23751	331	16 11.3
25.0	14 43 56.24	27 57.45	19 33 46.7	2 24 47.7	8.23420	348	16 3.9
25.5	15 11 53.69	28 21.66	21 58 34.4	2 4 29.1	8.23072	358	15 56.2
26.0	15 40 15.35	28 42.22	24 3 3.5	1 42 41.0	8.22714	358	15 48.3
26.5	16 8 57.57	28 56.57	25 45 44.5	1 19 50.0	8.22356	352	15 40.5
27.0	16 37 54.14	29 2.59	27 5 34.5	0 56 23.0	8.22004	341	15 33.0
27.5	17 6 56.73	28 58.85	28 1 57.5	−0 32 48.8	8.21663	−324	15 25.7
28.0	17 35 55.58	28 44.73	−28 34 46.3	−0 9 34.8	8.21339	302	15 18.8
28.5	18 4 40.31	28 20.55	28 44 21.1	+0 12 53.4	8.21037	277	15 12.4
29.0	18 33 0.86	27 47.57	28 31 27.7	0 34 14.7	8.20760	249	15 6.6
29.5	19 0 48.43	27 7.64	27 57 13.0	0 54 12.8	8.20511	218	15 1.4
30.0	19 27 56.07	26 23.02	27 3 0.2	1 12 37.6	8.20293	187	14 56.9
30.5	19 54 19.09	25 36.04	25 50 22.6	1 29 22.5	8.20106	156	14 53.1
31.0	20 19 55.13	24 48.89	24 21 0.1	1 44 26.5	8.19950	123	14 49.9
31.5	20 44 44.02	24 3.46	22 36 33.6	1 57 50.9	8.19827	92	14 47.3
April 1.0	21 8 47.48	23 21.28	20 38 42.7	2 9 39.2	8.19735	62	14 45.5
1.5	21 32 8.76	22 43.52	18 29 3.5	+2 19 56.3	8.19673	− 33	14 44.2
2.0	21 54 52.28	22 11.07	−16 9 7.2	2 28 46.5	8.19640	− 5	14 43.5
2.5	22 17 3.35	21 44.52	13 40 20.7	2 36 13.7	8.19635	+ 20	14 43.4
3.0	22 38 47.87	21 24.35	11 4 7.0	2 42 21.2	8.19655	44	14 43.8
3.5	23 0 12.22	21 10.81	8 21 45.8	2 47 10.6	8.19699	65	14 44.7
4.0	23 21 23.03	21 4.09	5 34 35.2	2 50 42.5	8.19764	84	14 46.1
4.5	23 42 27.12	21 4.38	− 2 43 52.7	2 52 55.8	8.19848	102	14 47.8
5.0	0 3 31.50	21 11.78	+ 0 9 3.1	2 53 47.9	8.19950	117	14 49.9
5.5	0 24 43.28	21 26.38	3 2 51.0	2 53 14.9	8.20067	130	14 52.3
6.0	0 46 9.66	21 48.25	5 56 5.9	2 51 11.3	8.20197	142	14 54.9
6.5	1 7 57.91		8 47 17.2		8.20339		14 57.9

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
März 18 *O*	8 57.0	8 40 3.60	−74.45	157.37	+22 57 29.0	− 696.9
U	21 26.0	9 11 8.80	−73.47	153.59	+20 26 14.2	− 813.7
19 *O*	9 54.3	9 41 27.36	−72.46	149.65	+17 33 15.2	− 913.9
U	22 21.8	10 10 59.59	−71.49	145.91	+14 22 2.4	− 995.6
20 *O*	10 48.5	10 39 49.44	−70.62	142.61	+10 56 23.6	−1058.0
U	23 14.7	11 8 3.49	−69.91	139.94	+ 7 20 14.5	−1100.5
21 *O*	11 40.5	11 35 50.03	−69.41	138.02	+ 3 37 34.9	−1123.0
—	—	—	—	—	—	—
22 *U*	0 5.9	12 3 18.44	−69.11	136.90	− 0 7 38.0	−1126.0
O	12 31.2	12 30 38.35	+69.04	136.58	− 3 51 31.4	−1109.8
23 *U*	0 56.5	12 57 59.25	+69.17	137.06	− 7 30 21.7	−1075.5
O	13 22.0	13 25 29.91	+69.49	138.22	−11 0 35.8	−1023.9
24 *U*	1 47.9	13 53 17.98	+69.96	139.96	−14 18 54.2	− 956.3
O	14 13.9	14 21 29.40	+70.55	142.11	−17 22 12.2	− 874.0
25 *U*	2 40.5	14 50 7.95	+71.18	144.46	−20 7 43.6	− 778.7
O	15 7.6	15 19 14.73	+71.81	146.77	−22 33 1.7	− 672.1
26 *U*	3 35.1	15 48 47.84	+72.36	148.79	−24 36 4.3	− 556.4
O	16 2.9	16 18 42.22	+72.76	150.25	−26 15 16.3	− 434.1
27 *U*	4 31.0	16 48 49.81	+72.96	150.91	−27 29 34.1	− 307.7
O	16 59.1	17 19 0.19	+72.91	150.63	−28 18 26.6	− 180.4
28 *U*	5 27.1	17 49 1.51	+72.61	149.35	−28 41 58.1	− 54.7
O	17 54.7	18 18 41.74	+72.05	147.09	−28 40 44.8	+ 66.6
29 *U*	6 21.8	18 47 49.77	+71.26	143.97	−28 15 52.5	+ 181.4
O	18 48.2	19 16 16.49	+70.29	140.21	−27 28 50.2	+ 288.1
30 *U*	7 13.8	19 43 55.44	+69.18	136.02	−26 21 20.8	+ 385.8
O	19 38.6	20 10 42.90	+68.00	131.65	−24 55 17.1	+ 473.8
31 *U*	8 2.4	20 36 37.96	+66.80	127.32	−23 12 34.9	+ 552.1
O	20 25.5	21 1 42.02	+65.65	123.19	−21 15 7.9	+ 621.2
April 1 *U*	8 47.7	21 25 58.49	+64.56	119.41	−19 4 45.2	+ 681.5
O	21 9.2	21 49 32.10	+63.59	116.09	−16 43 9.5	+ 733.4
2 *U*	9 30.1	22 12 28.77	+62.76	113.29	−14 11 57.9	+ 777.5
O	21 50.6	22 34 55.07	+62.09	111.07	−11 32 41.2	+ 814.2
3 *U*	10 10.6	22 56 58.12	+61.59	109.45	− 8 46 46.6	+ 843.9
O	22 30.4	23 18 45.33	+61.27	108.46	− 5 55 37.0	+ 866.6
4 *U*	10 50.0	23 40 24.32	+61.13	108.12	− 3 0 35.7	+ 882.5
O	23 9.6	0 2 2.87	+61.19	108.43	− 0 3 5.7	+ 891.4
5 *U*	11 29.4	0 23 48.91	+61.46	109.40	+ 2 55 27.2	+ 892.9
O	23 49.4	0 45 50.49	+61.93	111.07	+ 5 53 32.9	+ 886.7
6 *U*	12 9.7	1 8 15.79	−62.59	113.27	+ 8 49 35.0	+ 872.2
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Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
April 6.0	0 46 9.66	21 48.25	+ 5 56 5.9	+2 51 11.3	8.20197	+142	14 54.9
6.5	1 7 57.91	22 17.28	8 47 17.2	2 47 30.3	8.20339	153	14 57.9
7.0	1 30 15.19	22 53.34	11 34 47.5	2 42 4.4	8.20492	162	15 1.0
7.5	1 53 8.53	23 36.11	14 16 51.9	2 34 44.8	8.20654	171	15 4.4
8.0	2 16 44.64	24 24.89	16 51 36.7	2 25 22.2	8.20825	178	15 8.0
8.5	2 41 9.53	25 18.58	19 16 58.9	2 13 48.4	8.21003	185	15 11.7
9.0	3 6 28.11	26 15.63	21 30 47.3	1 59 56.5	8.21188	193	15 15.6
9.5	3 32 43.74	27 13.94	23 30 43.8	1 43 42.2	8.21381	199	15 19.7
10.0	3 59 57.68	28 10.77	25 14 26.0	1 25 5.9	8.21580	205	15 23.9
10.5	4 28 8.45	29 2.96	26 39 31.9	+1 4 14.1	8.21785	+211	15 28.3
11.0	4 57 11.41	29 47.20	+27 43 46.0	0 41 21.6	8.21996	216	15 32.8
11.5	5 26 58.61	30 20.42	28 25 7.6	+0 16 50.6	8.22212	221	15 37.4
12.0	5 57 19.03	30 40.30	28 41 58.2	−0 8 47.5	8.22433	224	15 42.2
12.5	6 27 59.33	30 45.77	28 33 10.7	0 34 57.2	8.22657	225	15 47.1
13.0	6 58 45.10	30 37.06	27 58 13.5	1 0 59.3	8.22882	224	15 52.0
13.5	7 29 22.16	30 15.95	26 57 14.2	1 26 14.7	8.23106	221	15 56.9
14.0	7 59 38.11	29 45.16	25 30 59.5	1 50 8.6	8.23327	212	16 1.8
14.5	8 29 23.27	29 8.13	23 40 50.9	2 12 12.0	8.23539	202	16 6.5
15.0	8 58 31.40	28 28.39	21 28 38.9	2 32 1.3	8.23741	187	16 11.0
15.5	9 26 59.79	27 49.13	18 56 37.6	−2 49 19.3	8.23928	+166	16 15.2
16.0	9 54 48.92	27 13.15	+16 7 18.3	3 3 53.9	8.24094	141	16 18.9
16.5	10 22 2.07	26 42.59	13 3 24.4	3 15 36.2	8.24235	111	16 22.1
17.0	10 48 44.66	26 18.97	9 47 48.2	3 24 19.6	8.24346	77	16 24.6
17.5	11 15 3.63	26 3.31	6 23 28.6	3 29 59.2	8.24423	+ 38	16 26.4
18.0	11 41 6.94	25 56.18	+ 2 53 29.4	3 32 31.6	8.24461	− 3	16 27.3
18.5	12 7 3.12	25 57.68	− 0 39 2.2	3 31 54.1	8.24458	47	16 27.2
19.0	12 33 0.80	26 7.55	4 10 56.3	3 28 6.4	8.24411	90	16 26.1
19.5	12 59 8.35	26 25.18	7 39 2.7	3 21 8.7	8.24321	134	16 24.1
20.0	13 25 33.53	26 49.51	11 0 11.4	3 11 4.7	8.24187	175	16 21.1
20.5	13 52 23.04	27 18.96	14 11 16.1	−2 58 0.4	8.24012	−213	16 17.1
21.0	14 19 42.00	27 51.52	−17 9 16.5	2 42 7.1	8.23799	247	16 12.3
21.5	14 47 33.52	28 24.67	19 51 23.6	2 23 39.5	8.23552	274	16 6.8
22.0	15 15 58.19	28 55.48	22 15 3.1	2 2 57.2	8.23278	296	16 0.7
22.5	15 44 53.67	29 20.86	24 18 0.3	1 40 27.0	8.22982	312	15 54.2
23.0	16 14 14.53	29 37.86	25 58 27.3	1 16 39.0	8.22670	320	15 47.4
23.5	16 43 52.39	29 44.16	27 15 6.3	0 52 8.0	8.22350	322	15 40.4
24.0	17 13 36.55	29 38.17	28 7 14.3	0 27 30.0	8.22028	317	15 33.5
24.5	17 43 14.72	29 19.66	28 34 44.3	−0 3 20.1	8.21711	307	15 26.7
25.0	18 12 34.38	28 49.50	28 38 4.4	+0 19 50.6	8.21404	291	15 20.2
25.5	18 41 23.88		28 18 13.8		8.21113		15 14.0

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
		h m	h m s	s	s	° ′ ″	″
April 6	U	12 9.7	1 8 15.79	—62.59	113.27	+ 8 49 35.0	+ 872.2
—		—	—	—	—	—	—
7	O	0 30.7	1 31 12.90	—63.44	116.24	+11 41 49.3	+ 848.6
	U	12 52.3	1 54 49.81	—64.47	119.86	+14 28 22.2	+ 815.1
8	O	1 14.6	2 19 14.13	—65.66	124.11	+17 7 9.2	+ 770.7
	U	13 37.9	2 44 32.77	—66.98	128.89	+19 35 54.4	+ 714.6
9	O	2 2.2	3 10 51.40	—68.40	134.07	+21 52 11.2	+ 645.7
	U	14 27.5	3 38 13.75	—69.84	139.47	+23 53 22.8	+ 563.6
10	O	2 53.9	4 6 41.01	—71.26	144.85	+25 36 47.1	+ 467.7
	U	15 21.4	4 36 10.94	—72.56	149.88	+26 59 41.6	+ 358.6
11	O	3 49.8	5 6 37.41	—73.69	154.23	+27 59 32.4	+ 237.3
	U	16 18.9	5 37 50.10	—74.54	157.57	+28 34 4.9	+ 105.8
12	O	4 48.6	6 9 35.17	—75.07	159.64	+28 41 34.4	— 32.7
	U	17 18.6	6 41 36.25	—75.23	160.28	+28 20 57.0	— 174.6
13	O	5 48.5	7 13 36.29	—75.06	159.52	+27 31 55.3	— 316.0
	U	18 18.2	7 45 19.37	—74.57	157.54	+26 15 0.6	— 452.8
14	O	6 47.4	8 16 32.41	—73.83	154.60	+24 31 30.3	— 581.4
	U	19 15.9	8 47 6.27	—72.95	151.09	+22 23 19.1	— 699.1
15	O	7 43.6	9 16 56.16	—71.97	147.36	+19 52 52.3	— 803.7
	U	20 10.7	9 46 1.48	—71.02	143.71	+17 2 56.8	— 893.7
16	O	8 37.1	10 14 25.11	—70.15	140.43	+13 56 33.2	— 968.1
	U	21 2.8	10 42 12.76	—69.42	137.72	+10 36 52.0	—1026.4
17	O	9 28.1	11 9 32.08	—68.86	135.70	+ 7 7 9.7	—1068.1
	U	21 53.0	11 36 32.09	—68.52	134.47	+ 3 30 47.3	—1093.0
18	O	10 17.8	12 3 22.45	—68.38	134.07	— 0 8 51.0	—1100.7
	U	22 42.7	12 30 13.14	—68.47	134.50	— 3 48 18.3	—1091.0
19	O	11 7.6	12 57 13.83	—68.78	135.70	— 7 24 6.5	—1064.0
	U	23 32.9	13 24 33.52	—69.28	137.61	—10 52 47.4	—1019.8
20	O	11 58.6	13 52 20.00	+69.92	140.24	—14 10 55.4	— 958.6
—		—	—	—	—	—	—
21	U	0 24.9	14 20 39.31	+70.68	143.18	—17 15 10.4	— 881.0
	O	12 51.8	14 49 35.10	+71.48	146.29	—20 2 22.9	— 788.2
22	U	1 19.3	15 19 7.93	+72.27	149.30	—22 29 39.0	— 681.8
	O	13 47.4	15 49 14.84	+72.95	151.89	—24 34 27.4	— 563.9
23	U	2 15.9	16 19 49.12	+73.44	153.77	—26 14 46.7	— 437.4
	O	14 44.7	16 50 40.43	+73.70	154.66	—27 29 12.7	— 305.6
24	U	3 13.6	17 21 35.76	+73.67	154.36	—28 17 2.8	— 172.0
	O	15 42.3	17 52 20.51	+73.34	152.83	—28 38 18.7	— 40.4
25	U	4 10.6	18 22 40.21	+72.71	150.14	—28 33 44.1	+ 85.8
	O	16 38.2	18 52 21.92	+71.81	146.49	—28 4 38.3	+ 204.3

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
April 25.0	18 12 34.38	28 49.50	−28 38 4.4	+0 19 50.6	8.21404	−291	15 20.2
25.5	18 41 23.88	28 9.56	28 18 13.8	0 41 37.9	8.21113	271	15 14.0
26.0	19 9 33.44	27 22.47	27 36 35.9	1 1 43.4	8.20842	246	15 8.3
26.5	19 36 55.91	26 31.07	26 34 52.5	1 19 57.3	8.20596	218	15 3.2
27.0	20 3 26.98	25 38.14	25 14 55.2	1 36 16.8	8.20378	188	14 58.7
27.5	20 29 5.12	24 46.16	23 38 38.4	1 50 43.2	8.20190	157	14 54.8
28.0	20 53 51.28	23 57.15	21 47 55.2	2 3 21.9	8.20033	122	14 51.6
28.5	21 17 48.43	23 12.63	19 44 33.3	2 14 20.3	8.19911	89	14 49.1
29.0	21 41 1.06	22 33.75	17 30 13.0	2 23 45.7	8.19822	54	14 47.2
29.5	22 3 34.81	22 1.27	15 6 27.3	+2 31 46.0	8.19768	−21	14 46.1
30.0	22 25 36.08	21 35.71	−12 34 41.3	2 38 26.9	8.19747	+10	14 45.7
30.5	22 47 11.79	21 17.35	9 56 14.4	2 43 52.9	8.19757	42	14 45.9
Mai 1.0	23 8 29.14	21 6.40	7 12 21.5	2 48 6.3	8.19799	70	14 46.8
1.5	23 29 35.54	21 3.04	4 24 15.2	2 51 8.0	8.19869	97	14 48.2
2.0	23 50 38.58	21 7.32	−1 33 7.2	2 52 56.0	8.19966	121	14 50.2
2.5	0 11 45.90	21 19.34	+1 19 48.8	2 53 25.9	8.20087	141	14 52.7
3.0	0 33 5.24	21 39.11	4 13 14.7	2 52 32.2	8.20228	159	14 55.6
3.5	0 54 44.35	22 6.66	7 5 46.9	2 50 7.0	8.20387	174	14 58.9
4.0	1 16 51.01	22 41.78	9 55 53.9	2 46 0.3	8.20561	185	15 2.5
4.5	1 39 32.79	23 24.21	12 41 54.2	+2 40 1.3	8.20746	+193	15 6.3
5.0	2 2 57.00	24 13.30	+15 21 55.5	2 31 58.0	8.20939	199	15 10.4
5.5	2 27 10.30	25 8.10	17 53 53.5	2 21 38.8	8.21138	202	15 14.5
6.0	2 52 18.40	26 6.98	20 15 32.3	2 8 53.9	8.21340	202	15 18.8
6.5	3 18 25.38	27 7.85	22 24 26.2	1 53 36.1	8.21542	200	15 23.1
7.0	3 45 33.23	28 7.80	24 18 2.3	1 35 43.9	8.21742	196	15 27.3
7.5	4 13 41.03	29 3.51	25 53 46.2	1 15 22.5	8.21938	191	15 31.5
8.0	4 42 44.54	29 51.24	27 9 8.7	0 52 46.3	8.22129	184	15 35.6
8.5	5 12 35.78	30 27.49	28 1 55.0	0 28 20.1	8.22313	176	15 39.6
9.0	5 43 3.27	30 49.51	28 30 15.1	+0 2 37.4	8.22489	170	15 43.4
9.5	6 13 52.78	30 55.77	28 32 52.5	−0 23 41.4	8.22659	+161	15 47.1
10.0	6 44 48.55	30 46.36	+28 9 11.1	0 49 53.0	8.22820	153	15 50.6
10.5	7 15 34.91	30 22.96	27 19 18.1	1 15 14.8	8.22973	143	15 54.0
11.0	7 45 57.87	29 48.55	26 4 3.3	1 39 9.7	8.23116	134	15 57.2
11.5	8 15 46.42	29 6.79	24 24 53.6	2 1 9.0	8.23250	125	16 0.1
12.0	8 44 53.21	28 21.52	22 23 44.6	2 20 51.5	8.23375	113	16 2.9
12.5	9 13 14.73	27 36.33	20 2 53.1	2 38 3.9	8.23488	102	16 5.4
13.0	9 40 51.06	26 54.28	17 24 49.2	2 52 39.7	8.23590	89	16 7.7
13.5	10 7 45.34	26 17.63	14 32 9.5	3 4 36.0	8.23679	74	16 9.6
14.0	10 34 2.97	25 48.11	11 27 33.5	3 13 52.1	8.23753	57	16 11.3
14.5	10 59 51.08		8 13 41.4		8.23810		16 12.6

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
		h m	h m s	s	s	° ′ ″	″
April 25	U	4 10.6	18 22 40.21	+72.71	150.14	−28 33 44.1	+ 85.8
	O	16 38.2	18 52 21.92	+71.81	146.49	−28 4 38.3	+ 204.3
26	U	5 5.0	19 21 15.42	+70.72	142.12	−27 12 47.8	+ 313.0
	O	17 31.0	19 49 13.88	+69.50	137.35	−26 0 16.2	+ 410.9
27	U	5 56.0	20 16 14.00	+68.21	132.44	−24 29 14.7	+ 497.9
	O	18 19.9	20 42 15.69	+66.93	127.64	−22 41 54.0	+ 574.2
28	U	6 43.0	21 7 21.48	+65.69	123.15	−20 40 19.1	+ 640.3
	O	19 5.2	21 31 35.91	+64.57	119.13	−18 26 26.7	+ 697.3
29	U	7 26.7	21 55 5.09	+63.57	115.64	−16 2 2.9	+ 745.6
	O	19 47.5	22 17 55.98	+62.73	112.79	−13 28 44.4	+ 786.5
30	U	8 7.8	22 40 16.28	+62.07	110.58	−10 47 59.6	+ 820.2
	O	20 27.7	23 2 14.04	+61.59	109.06	− 8 1 10.2	+ 847.2
Mai 1	U	8 47.4	23 23 57.48	+61.31	108.24	− 5 9 33.7	+ 868.0
	O	21 7.0	23 45 35.05	+61.24	108.13	− 2 14 26.5	+ 882.3
2	U	9 26.7	0 7 15.28	+61.37	108.73	+ 0 42 54.1	+ 890.1
	O	21 46.5	0 29 6.78	+61.72	110.05	+ 3 41 6.9	+ 891.0
3	U	10 6.7	0 51 18.25	+62.27	112.09	+ 6 38 44.7	+ 884.1
	O	22 27.3	1 13 58.42	+63.03	114.86	+ 9 34 11.8	+ 868.9
4	U	10 48.6	1 37 15.92	+63.98	118.35	+12 25 40.4	+ 844.2
	O	23 10.6	2 1 19.16	+65.11	122.51	+15 11 10.8	+ 808.9
5	U	11 33.5	2 26 15.87	+66.40	127.30	+17 48 28.3	+ 761.7
	O	23 57.4	2 52 12.90	−67.81	132.32	+20 15 3.3	+ 701.6
6	U	12 22.4	3 19 15.15	−69.27	137.90	+22 28 13.3	+ 627.3
—		—	—	—	—	—	—
7	O	0 48.5	3 47 25.17	−70.75	143.56	+24 25 5.2	+ 538.4
	U	13 15.8	4 16 42.04	−72.15	148.99	+26 2 42.5	+ 434.8
8	O	1 44.0	4 47 0.68	−73.37	153.81	+27 18 13.3	+ 317.4
	U	14 13.2	5 18 11.46	−74.34	157.66	+28 9 2.9	+ 188.3
9	O	2 42.9	5 50 0.45	−74.99	160.18	+28 33 8.0	+ 50.6
	U	15 13.0	6 22 10.43	−75.26	161.18	+28 29 6.9	− 91.9
10	O	3 43.2	6 54 22.64	−75.15	160.61	+27 56 30.0	− 234.7
	U	16 13.1	7 26 19.02	−74.68	158.62	+26 55 40.9	− 373.2
11	O	4 42.5	7 57 44.11	−73.94	155.51	+25 27 54.4	− 503.6
	U	17 11.1	8 28 26.63	−72.99	151.62	+23 35 7.0	− 623.0
12	O	5 39.0	8 58 19.94	−71.94	147.38	+21 19 44.3	− 729.1
	U	18 6.0	9 27 22.08	−70.86	143.15	+18 44 32.2	− 821.0
13	O	6 32.1	9 55 35.14	−69.86	139.24	+15 52 25.5	− 898.1
	U	18 57.6	10 23 4.33	−68.97	135.86	+12 46 22.8	− 960.3
14	O	7 22.4	10 49 57.20	−68.24	133.18	+ 9 29 21.9	−1007.8
	U	19 46.8	11 16 22.87	−67.74	131.31	+ 6 4 18.6	−1040.6

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Mai 14.0	10 34 2.97	25 48.11	+11 27 33.5	−3 13 52.1	8.23753	+ 57	16 11.3
14.5	10 59 51.08	25 26.85	8 13 41.4	3 20 27.8	8.23810	37	16 12.6
15.0	11 25 17.93	25 14.55	4 53 13.6	3 24 23.8	8.23847	+ 17	16 13.4
15.5	11 50 32.48	25 11.43	+ 1 28 49.8	3 25 39.0	8.23864	− 8	16 13.8
16.0	12 15 43.91	25 17.48	− 1 56 49.2	3 24 11.2	8.23856	33	16 13.6
16.5	12 41 1.39	25 32.35	5 21 0.4	3 19 58.3	8.23823	60	16 12.9
17.0	13 6 33.74	25 55.32	8 40 58.7	3 12 57.9	8.23763	89	16 11.5
17.5	13 32 29.06	26 25.29	11 53 56.6	3 3 8.4	8.23674	117	16 9.5
18.0	13 58 54.35	27 0.63	14 57 5.0	2 50 30.6	8.23557	145	16 6.9
18.5	14 25 54.98	27 39.27	17 47 35.6	−2 35 8.1	8.23412	−173	16 3.7
19.0	14 53 34.25	28 18.44	−20 22 43.7	2 17 10.2	8.23239	197	15 59.9
19.5	15 21 52.69	28 55.07	22 39 53.9	1 56 52.4	8.23042	220	15 55.5
20.0	15 50 47.76	29 25.73	24 36 46.3	1 34 36.6	8.22822	239	15 50.7
20.5	16 20 13.49	29 47.09	26 11 22.9	1 10 52.6	8.22583	253	15 45.5
21.0	16 50 0.58	29 56.50	27 22 15.5	0 46 16.1	8.22330	262	15 40.0
21.5	17 19 57.08	29 52.31	28 8 31.6	−0 21 25.5	8.22068	268	15 34.3
22.0	17 49 49.39	29 34.11	28 29 57.1	+0 3 0.0	8.21800	268	15 28.6
22.5	18 19 23.50	29 2.92	28 26 57.1	0 26 24.6	8.21532	262	15 22.9
23.0	18 48 26.42	28 20.94	28 0 32.5	0 48 20.0	8.21270	253	15 17.3
23.5	19 16 47.36	27 31.17	27 12 12.5	+1 8 25.7	8.21017	−238	15 12.0
24.0	19 44 18.53	26 36.76	−26 3 46.8	1 26 29.8	8.20779	218	15 7.0
24.5	20 10 55.29	25 40.81	24 37 17.0	1 42 28.9	8.20561	196	15 2.5
25.0	20 36 36.10	24 46.06	22 54 48.1	1 56 25.3	8.20365	170	14 58.4
25.5	21 1 22.16	23 54.71	20 58 22.8	2 8 26.4	8.20195	141	14 54.9
26.0	21 25 16.87	23 8.35	18 49 56.4	2 18 40.3	8.20054	110	14 52.0
26.5	21 48 25.22	22 28.20	16 31 16.1	2 27 17.1	8.19944	77	14 49.7
27.0	22 10 53.42	21 54.98	14 3 59.0	2 34 26.4	8.19867	42	14 48.2
27.5	22 32 48.40	21 29.19	11 29 32.6	2 40 16.1	8.19825	− 8	14 47.3
28.0	22 54 17.59	21 11.21	8 49 16.5	2 44 52.2	8.19817	+ 26	14 47.1
28.5	23 15 28.80	21 1.16	6 4 24.3	+2 48 19.1	8.19843	+ 60	14 47.7
29.0	23 36 29.96	20 59.23	− 3 16 5.2	2 50 38.0	8.19903	93	14 48.9
29.5	23 57 29.19	21 5.49	− 0 25 27.2	2 51 47.6	8.19996	124	14 50.8
30.0	0 18 34.68	21 20.10	+ 2 26 20.4	2 51 44.7	8.20120	151	14 53.3
30.5	0 39 54.78	21 43.05	5 18 5.1	2 50 22.6	8.20271	178	14 56.5
31.0	1 1 37.83	22 14.44	8 8 27.7	2 47 32.7	8.20449	199	15 0.1
31.5	1 23 52.27	22 54.05	10 56 0.4	2 43 3.1	8.20648	219	15 4.3
Juni 1.0	1 46 46.32	23 41.57	13 39 3.5	2 36 40.8	8.20867	233	15 8.9
1.5	2 10 27.89	24 36.35	16 15 44.3	2 28 11.3	8.21100	243	15 13.8
2.0	2 35 4.24	25 37.14	18 43 55.6	2 17 19.4	8.21343	249	15 18.9
2.5	3 0 41.38		21 1 15.0		8.21592		15 24.1

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Mai 14	*O*	7 22.4	10 49 57.20	−68.24	133.18	+ 9 29 21.9	−1007.8
	U	19 46.8	11 16 22.87	−67.74	131.31	+ 6 4 18.6	−1040.6
15	*O*	8 10.9	11 42 31.34	−67.44	130.30	+ 2 34 7.9	−1059.0
	U	20 34.9	12 8 33.12	−67.38	130.16	− 0 58 16.0	−1062.7
16	*O*	8 58.9	12 34 38.74	−67.55	130.89	− 4 29 57.0	−1051.7
	U	21 23.2	13 0 58.42	−67.94	132.46	− 7 57 56.5	−1025.6
17	*O*	9 47.9	13 27 41.68	−68.53	134.79	−11 19 12.0	− 984.2
	U	22 13.1	13 54 56.92	−69.28	137.75	−14 30 38.2	− 927.2
18	*O*	10 39.0	14 22 50.76	−70.15	141.16	−17 29 7.7	− 854.7
	U	23 5.6	14 51 27.40	−71.07	144.83	−20 11 35.9	− 767.0
19	*O*	11 32.8	15 20 47.97	−71.97	148.43	−22 35 4.8	− 665.0
—	—	—	—	—	—	—	—
20	*U*	0 0.8	15 50 49.79	+72.78	151.78	−24 36 53.9	− 550.6
	O	12 29.4	16 21 26.09	+73.40	154.24	−26 14 45.2	− 425.8
21	*U*	0 58.3	16 52 25.97	+73.76	155.61	−27 26 56.1	− 294.4
	O	13 27.4	17 23 35.27	+73.81	155.71	−28 12 27.3	− 159.8
22	*U*	1 56.4	17 54 37.90	+73.52	154.43	−28 31 6.1	− 26.4
	O	14 25.0	18 25 17.48	+72.92	151.89	−28 23 28.4	+ 102.3
23	*U*	2 53.0	18 55 19.40	+72.02	148.13	−27 50 51.8	+ 222.9
	O	15 20.2	19 24 31.75	+70.92	143.61	−26 55 6.9	+ 333.3
24	*U*	3 46.4	19 52 46.64	+69.65	138.59	−25 38 26.0	+ 432.1
	O	16 11.6	20 20 0.01	+68.33	133.40	−24 3 11.2	+ 518.8
25	*U*	4 35.7	20 46 11.54	+66.99	128.31	−22 11 45.5	+ 593.9
	O	16 58.9	21 11 23.76	+65.73	123.55	−20 6 24.8	+ 658.1
26	*U*	5 21.2	21 35 41.55	+64.56	119.28	−17 49 14.9	+ 712.5
	O	17 42.6	21 59 11.40	+63.54	115.61	−15 22 9.7	+ 757.5
27	*U*	6 3.4	22 22 0.87	+62.68	112.59	−12 46 50.2	+ 794.7
	O	18 23.7	22 44 18.14	+62.01	110.28	−10 4 47.0	+ 824.9
28	*U*	6 43.6	23 6 11.80	+61.55	108.70	− 7 17 21.5	+ 848.5
	O	19 3.2	23 27 50.74	+61.28	107.87	− 4 25 49.2	+ 866.0
29	*U*	7 22.7	23 49 23.94	+61.23	107.78	− 1 31 22.2	+ 877.6
	O	19 42.3	0 11 0.47	+61.40	108.47	+ 1 24 47.5	+ 883.1
30	*U*	8 2.1	0 32 49.67	+61.79	109.93	+ 4 21 25.1	+ 882.2
	O	20 22.2	0 55 0.81	+62.41	112.18	+ 7 17 9.8	+ 874.1
31	*U*	8 42.9	1 17 43.42	+63.23	115.21	+10 10 31.3	+ 858.0
	O	21 4.3	1 41 6.89	+64.27	119.03	+12 59 46.9	+ 832.7
Juni 1	*U*	9 26.5	2 5 20.43	+65.49	123.57	+15 42 58.1	+ 797.1
	O	21 49.7	2 30 32.60	+66.88	128.81	+18 17 50.0	+ 749.3
2	*U*	10 13.9	2 56 50.91	+68.38	134.60	+20 41 48.0	+ 687.8
	O	22 39.4	3 24 20.77	+69.96	140.73	+22 52 0.1	+ 611.4

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juni 2.0	2 35 4.24	25 37.14	+18 43 55.6	+2 17 19.4	8.21343	+249	15 18.9
2.5	3 0 41.38	26 42.11	21 1 15.0	2 3 52.0	8.21592	251	15 24.1
3.0	3 27 23.49	27 48.65	23 5 7.0	1 47 39.8	8.21843	247	15 29.5
3.5	3 55 12.14	28 53.31	24 52 46.8	1 28 39.5	8.22090	239	15 34.8
4.0	4 24 5.45	29 52.07	26 21 26.3	1 6 58.5	8.22329	228	15 40.0
4.5	4 53 57.52	30 40.56	27 28 24.8	0 42 54.6	8.22557	212	15 44.9
5.0	5 24 38.08	31 14.91	28 11 19.4	+0 16 59.2	8.22769	195	15 49.5
5.5	5 55 52.99	31 32.18	28 28 18.6	−0 10 5.4	8.22964	175	15 53.8
6.0	6 27 25.17	31 31.27	28 18 13.2	0 37 29.0	8.23139	152	15 57.7
6.5	6 58 56.44	31 12.97	27 40 44.2	−1 4 20.3	8.23291	+129	16 1.0
7.0	7 30 9.41	30 39.93	+26 36 23.9	1 29 50.2	8.23420	105	16 3.9
7.5	8 0 49.34	29 56.04	25 6 33.7	1 53 19.5	8.23525	83	16 6.2
8.0	8 30 45.38	29 5.67	23 13 14.2	2 14 19.0	8.23608	60	16 8.1
8.5	8 59 51.05	28 13.23	20 58 55.2	2 32 31.3	8.23668	39	16 9.4
9.0	9 28 4.28	27 22.45	18 26 23.9	2 47 48.4	8.23707	+ 18	16 10.3
9.5	9 55 26.73	26 36.26	15 38 35.5	3 0 10.0	8.23725	0	16 10.7
10.0	10 22 2.99	25 56.88	12 38 25.5	3 9 39.6	8.23725	− 18	16 10.7
10.5	10 47 59.87	25 25.72	9 28 45.9	3 16 23.9	8.23707	33	16 10.3
11.0	11 13 25.59	25 3.70	6 12 22.0	3 20 29.4	8.23674	49	16 9.5
11.5	11 38 29.29	24 51.23	+ 2 51 52.6	−3 22 1.5	8.23625	− 64	16 8.4
12.0	12 3 20.52	24 48.41	− 0 30 8.9	3 21 4.2	8.23561	76	16 7.0
12.5	12 28 8.93	24 55.06	3 51 13.1	3 17 40.4	8.23485	90	16 5.3
13.0	12 53 3.99	25 10.68	7 8 53.5	3 11 50.9	8.23395	103	16 3.3
13.5	13 18 14.67	25 34.45	10 20 44.4	3 3 34.3	8.23292	116	16 1.0
14.0	13 43 49.12	26 5.22	13 24 18.7	2 52 50.2	8.23176	130	15 58.5
14.5	14 9 54.34	26 41.37	16 17 8.9	2 39 38.3	8.23046	144	15 55.6
15.0	14 36 35.71	27 20.71	18 56 47.2	2 24 1.4	8.22902	156	15 52.4
15.5	15 3 56.42	28 0.59	21 20 48.6	2 6 5.0	8.22746	169	15 49.0
16.0	15 31 57.01	28 37.83	23 26 53.6	1 46 1.5	8.22577	181	15 45.3
16.5	16 0 34.84	29 9.12	25 12 55.1	−1 24 9.5	8.22396	−191	15 41.4
17.0	16 29 43.96	29 31.18	−26 37 4.6	1 0 54.6	8.22205	201	15 37.3
17.5	16 59 15.14	29 41.35	27 37 59.2	0 36 49.6	8.22004	208	15 33.0
18.0	17 28 56.49	29 37.94	28 14 48.8	−0 12 30.6	8.21796	214	15 28.5
18.5	17 58 34.43	29 20.61	28 27 19.4	+0 11 24.3	8.21582	215	15 23.9
19.0	18 27 55.04	28 50.34	28 15 55.1	0 34 20.9	8.21367	214	15 19.4
19.5	18 56 45.38	28 9.30	27 41 34.2	0 55 49.6	8.21153	210	15 14.9
20.0	19 24 54.68	27 20.39	26 45 44.6	1 15 29.0	8.20943	202	15 10.4
20.5	19 52 15.07	26 26.75	25 30 15.6	1 33 6.2	8.20741	192	15 6.2
21.0	20 18 41.82	25 31.53	23 57 9.4	1 48 36.3	8.20549	176	15 2.2
21.5	20 44 13.35		22 8 33.1		8.20373		14 58.6

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Juni 2	*U*	10 13.9	2 56 50.91	+68.38	134.60	+20 41 48.0	+ 687.8
	O	22 39.4	3 24 20.77	+69.96	140.73	+22 52 0.1	+ 611.4
3	*U*	11 6.1	3 53 4.85	+71.51	146.91	+24 45 20.5	+ 518.9
	O	23 34.0	4 23 1.70	+72.98	152.78	+26 18 36.0	+ 410.4
4	*U*	12 3.0	4 54 5.02	−74.24	157.69	+27 28 38.7	+ 286.9
—		—	—	—	—	—	—
5	*O*	0 32.9	5 26 3.12	−75.21	161.63	+28 12 40.8	+ 150.8
	U	13 3.4	5 58 39.28	−75.80	164.02	+28 28 31.5	+ 5.7
6	*O*	1 34.3	6 31 33.28	−75.96	164.64	+28 14 52.2	− 143.3
	U	14 5.1	7 4 23.57	−75.69	163.48	+27 31 27.7	− 291.0
7	*O*	2 35.4	7 36 49.90	−75.06	160.75	+26 19 6.2	− 431.9
	U	15 5.2	8 8 35.75	−74.12	156.85	+24 39 34.2	− 562.0
8	*O*	3 34.0	8 39 29.68	−73.00	152.21	+22 35 22.8	− 678.0
	U	16 1.9	9 9 25.75	−71.80	147.30	+20 9 33.9	− 778.0
9	*O*	4 28.8	9 38 23.22	−70.60	142.51	+17 25 22.7	− 861.5
	U	16 54.8	10 6 25.56	−69.50	138.14	+14 26 9.1	− 928.4
10	*O*	5 20.0	10 33 39.33	−68.54	134.42	+11 15 8.3	− 979.4
	U	17 44.5	11 0 13.26	−67.78	131.49	+ 7 55 27.9	−1015.1
11	*O*	6 8.5	11 26 17.44	−67.24	129.44	+ 4 30 5.4	−1036.5
	U	18 32.3	11 52 2.66	−66.93	128.29	+ 1 1 50.5	−1043.9
12	*O*	6 55.9	12 17 39.92	−66.87	128.07	− 2 26 33.2	−1037.9
	U	19 19.5	12 43 20.15	−67.04	128.75	− 5 52 26.3	−1018.7
13	*O*	7 43.3	13 9 13.83	−67.42	130.28	− 9 13 10.5	− 986.4
	U	20 7.6	13 35 30.76	−68.02	132.58	−12 26 6.7	− 940.6
14	*O*	8 32.4	14 2 19.45	−68.77	135.53	−15 28 33.3	− 881.3
	U	20 57.8	14 29 46.78	−69.64	138.97	−18 17 46.1	− 808.3
15	*O*	9 23.9	14 57 57.32	−70.56	142.68	−20 51 2.1	− 721.8
	U	21 50.8	15 26 52.56	−71.48	146.37	−23 5 41.3	− 622.2
16	*O*	10 18.4	15 56 30.30	−72.29	149.73	−24 59 14.6	− 510.9
	U	22 46.6	16 26 44.35	−72.92	152.39	−26 29 32.4	− 390.0
17	*O*	11 15.2	16 57 24.44	−73.31	154.05	−27 34 53.8	− 262.0
	U	23 44.0	17 28 16.89	−73.41	154.46	−28 14 15.9	− 130.6
18	*O*	12 12.8	17 59 5.84	+73.16	153.44	−28 27 19.9	+ 0.4
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19	*U*	0 41.2	18 29 34.99	+72.59	151.10	−28 14 33.7	+ 127.1
	O	13 9.1	18 59 29.34	+71.74	147.63	−27 37 7.3	+ 246.4
20	*U*	1 36.1	19 28 36.69	+70.66	143.27	−26 36 45.6	+ 355.9
	O	14 2.3	19 56 48.45	+69.43	138.38	−25 15 37.9	+ 453.8
21	*U*	2 27.4	20 23 59.94	+68.12	133.28	−23 36 6.6	+ 539.7
	O	14 51.4	20 50 10.24	+66.80	128.22	−21 40 37.0	+ 613.7

Mittlerer Mittag und Mitternacht.

Datum		Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Juni	21.0	20 18 41.82	25 31.53	−23 57 9.4	+1 48 36.3	8.20549	−176	15 2.2
	21.5	20 44 13.35	24 37.39	22 8 33.1	2 2 1.0	8.20373	159	14 58.6
	22.0	21 8 50.74	23 46.52	20 6 32.1	2 13 26.1	8.20214	137	14 55.3
	22.5	21 32 37.26	23 0.58	17 53 6.0	2 23 0.2	8.20077	113	14 52.5
	23.0	21 55 37.84	22 20.74	15 30 5.8	2 30 53.1	8.19964	86	14 50.1
	23.5	22 17 58.58	21 47.80	12 59 12.7	2 37 15.2	8.19878	57	14 48.4
	24.0	22 39 46.38	21 22.30	10 21 57.5	2 42 14.6	8.19821	− 26	14 47.2
	24.5	23 1 8.68	21 4.56	7 39 42.9	2 45 58.8	8.19795	+ 7	14 46.7
	25.0	23 22 13.24	20 54.84	4 53 44.1	2 48 33.2	8.19802	41	14 46.8
	25.5	23 43 8.08	20 53.27	− 2 5 10.9	+2 49 59.8	8.19843	+ 75	14 47.7
	26.0	0 4 1.35	21 0.08	+ 0 44 48.9	2 50 19.4	8.19918	109	14 49.2
	26.5	0 25 1.43	21 15.35	3 35 8.3	2 49 29.3	8.20027	141	14 51.4
	27.0	0 46 16.78	21 39.24	6 24 37.6	2 47 24.5	8.20168	173	14 54.3
	27.5	1 7 56.02	22 11.81	9 12 2.1	2 43 56.1	8.20341	203	14 57.9
	28.0	1 30 7.83	22 52.98	11 55 58.2	2 38 53.9	8.20544	231	15 2.1
	28.5	1 53 0.81	23 42.53	14 34 52.1	2 32 4.2	8.20775	252	15 6.9
	29.0	2 16 43.34	24 39.75	17 6 56.3	2 23 11.3	8.21027	272	15 12.2
	29.5	2 41 23.09	25 43.56	19 30 7.6	2 11 59.2	8.21299	289	15 17.9
	30.0	3 7 6.65	26 52.05	21 42 6.8	1 58 12.5	8.21588	299	15 24.1
	30.5	3 33 58.70	28 2.54	23 40 19.3	+1 41 38.8	8.21887	+302	15 30.4
Juli	1.0	4 2 1.24	29 11.40	+25 21 58.1	1 22 12.4	8.22189	300	15 36.9
	1.5	4 31 12.64	30 14.28	26 44 10.5	0 59 57.5	8.22489	294	15 43.4
	2.0	5 1 26.92	31 6.50	27 44 8.0	0 35 11.1	8.22783	279	15 49.8
	2.5	5 32 33.42	31 43.71	28 19 19.1	+0 8 24.5	8.23062	260	15 56.0
	3.0	6 4 17.13	32 2.76	28 27 43.6	−0 19 36.7	8.23322	235	16 1.7
	3.5	6 36 19.89	32 2.28	28 8 6.9	0 47 58.5	8.23557	204	16 6.9
	4.0	7 8 22.17	31 43.23	27 20 8.4	1 15 42.7	8.23761	171	16 11.5
	4.5	7 40 5.40	31 8.47	26 4 25.7	1 41 54.0	8.23932	136	16 15.3
	5.0	8 11 13.87	30 22.21	24 22 31.7	2 5 46.8	8.24068	98	16 18.4
	5.5	8 41 36.08	29 29.29	22 16 44.9	−2 26 47.9	8.24166	+ 58	16 20.6
	6.0	9 11 5.37	28 34.34	+19 49 57.0	2 44 36.8	8.24224	+ 20	16 21.9
	6.5	9 39 39.71	27 41.32	17 5 20.2	2 59 4.2	8.24244	− 16	16 22.3
	7.0	10 7 21.03	26 53.29	14 6 16.0	3 10 11.5	8.24228	49	16 22.0
	7.5	10 34 14.32	26 12.40	10 56 4.5	3 18 4.4	8.24179	81	16 20.9
	8.0	11 0 26.72	25 40.15	7 38 0.1	3 22 52.7	8.24098	107	16 19.0
	8.5	11 26 6.87	25 17.25	4 15 7.4	3 24 47.7	8.23991	129	16 16.6
	9.0	11 51 24.12	25 4.05	+ 0 50 19.7	3 24 0.2	8.23862	149	16 13.7
	9.5	12 16 28.17	25 0.49	− 2 33 40.5	3 20 39.3	8.23713	165	16 10.4
	10.0	12 41 28.66	25 6.25	5 54 19.8	3 14 52.7	8.23548	177	16 6.7
	10.5	13 6 34.91		9 9 12.5		8.23371		16 2.8

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Juni 21	U	2 27.4	20 23 59.94	+68.12	133.28	−23 36 6.6	+ 539.7
	O	14 51.4	20 50 10.24	+66.80	128.22	−21 40 37.0	+ 613.7
22	U	3 14.7	21 15 21.38	+65.55	123.46	−19 31 29.5	+ 676.1
	O	15 37.0	21 39 37.88	+64.39	119.16	−17 10 56.1	+ 728.1
23	U	3 58.4	22 3 5.87	+63.37	115.42	−14 40 55.9	+ 770.7
	O	16 19.2	22 25 52.73	+62.51	112.34	−12 3 16.1	+ 804.8
24	U	4 39.4	22 48 6.53	+61.85	109.95	− 9 19 31.8	+ 831.4
	O	16 59.2	23 9 55.81	+61.38	108.29	− 6 31 8.2	+ 851.4
25	U	5 18.7	23 31 29.39	+61.13	107.37	− 3 39 22.8	+ 865.3
	O	17 38.1	23 52 56.30	+61.09	107.23	− 0 45 27.8	+ 873.1
26	U	5 57.6	0 14 25.79	+61.27	107.85	+ 2 9 26.0	+ 875.0
	O	18 17.2	0 36 7.21	+61.67	109.26	+ 5 4 7.4	+ 870.9
27	U	6 37.3	0 58 10.13	+62.31	111.48	+ 7 57 20.4	+ 860.2
	O	18 57.8	1 20 44.34	+63.15	114.51	+10 47 41.1	+ 842.0
28	U	7 19.0	1 43 59.58	+64.21	118.36	+13 33 34.3	+ 815.3
	O	19 41.1	2 8 5.61	+65.46	123.01	+16 13 10.2	+ 778.8
29	U	8 4.2	2 33 11.65	+66.90	128.39	+18 44 20.5	+ 730.8
	O	20 28.4	2 59 26.00	+68.46	134.39	+21 4 37.8	+ 669.6
30	U	8 53.8	3 26 55.08	+70.11	140.83	+23 11 13.8	+ 593.5
	O	21 20.6	3 55 42.58	+71.77	147.41	+25 1 2.3	+ 501.3
Juli 1	U	9 48.6	4 25 48.09	+73.32	153.74	+26 30 45.3	+ 392.5
	O	22 17.9	4 57 6.04	+74.68	159.36	+27 37 5.0	+ 267.6
2	U	10 48.1	5 29 25.13	+75.74	163.79	+28 16 59.0	+ 128.6
	O	23 19.1	6 2 28.35	+76.41	166.58	+28 27 59.9	− 20.7
3	U	11 50.5	6 35 54.48	+76.62	167.48	+28 8 33.8	− 174.9
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4	O	0 21.9	7 9 20.36	−76.39	166.54	+27 18 14.7	− 328.4
	U	12 52.9	7 42 23.97	−75.76	163.89	+25 57 48.8	− 475.0
5	O	1 23.2	8 14 46.98	−74.80	159.90	+24 9 10.0	− 609.8
	U	13 52.6	8 46 16.48	−73.64	155.08	+21 55 5.5	− 728.8
6	O	2 21.1	9 16 45.58	−72.38	149.94	+19 18 59.6	− 829.6
	U	14 48.5	9 46 13.09	−71.13	144.88	+16 24 36.2	− 911.5
7	O	3 14.9	10 14 42.29	−69.98	140.25	+13 15 43.8	− 974.4
	U	15 40.5	10 42 19.87	−68.97	136.28	+ 9 56 6.1	−1019.2
8	O	4 5.4	11 9 14.82	−68.18	133.13	+ 6 29 14.9	−1046.8
	U	16 29.7	11 35 37.45	−67.60	130.87	+ 2 58 28.8	−1058.5
9	O	4 53.7	12 1 38.74	−67.27	129.54	− 0 33 8.3	−1055.3
	U	17 17.5	12 27 29.79	−67.19	129.13	− 4 2 43.6	−1038.3
10	O	5 41.4	12 53 21.51	−67.32	129.61	− 7 27 35.5	−1008.1
	U	18 5.4	13 19 24.27	−67.68	130.93	−10 45 8.6	− 965.2

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juli 10.0	12 41 28.66	25 6.25	— 5 54 19.8	−3 14 52.7	8.23548	−177	16 6.7
10.5	13 6 34.91	25 20.68	9 9 12.5	3 6 45.8	8.23371	185	16 2.8
11.0	13 31 55.59	25 42.85	12 15 58.3	2 56 22.6	8.23186	192	15 58.7
11.5	13 57 38.44	26 11.38	15 12 20.9	2 43 46.3	8.22994	196	15 54.5
12.0	14 23 49.82	26 44.57	17 56 7.2	2 29 0.2	8.22798	198	15 50.2
12.5	14 50 34.39	27 20.21	20 25 7.4	2 12 9.6	8.22600	199	15 45.8
13.0	15 17 54.60	27 55.64	22 37 17.0	1 53 22.3	8.22401	198	15 41.5
13.5	15 45 50.24	28 27.82	24 30 39.3	1 32 50.7	8.22203	198	15 37.2
14.0	16 14 18.06	28 53.76	26 3 30.0	1 10 53.6	8.22005	197	15 33.0
14.5	16 43 11.82		27 14 23.6		8.21808		15 28.8
		29 10.55		−0 47 54.4		−195	
15.0	17 12 22.37	29 15.99	—28 2 18.0	0 24 22.3	8.21613	192	15 24.6
15.5	17 41 38.36	29 8.87	28 26 40.3	−0 0 49.4	8.21421	189	15 20.5
16.0	18 10 47.23	28 49.12	28 27 29.7	+0 22 11.1	8.21232	184	15 16.5
16.5	18 39 36.35	28 17.89	28 5 18.6	0 44 9.4	8.21048	180	15 12.6
17.0	19 7 54.24	27 37.27	27 21 9.2	1 4 40.3	8.20868	174	15 8.9
17.5	19 35 31.51	26 49.96	26 16 28.9	1 23 24.7	8.20694	167	15 5.2
18.0	20 2 21.47	25 58.78	24 53 4.2	1 40 12.0	8.20527	157	15 1.8
18.5	20 28 20.25	25 6.54	23 12 52.2	1 54 56.4	8.20370	145	14 58.5
19.0	20 53 26.79	24 15.60	21 17 55.8	2 7 39.1	8.20225	132	14 55.5
19.5	21 17 42.39		19 10 16.7		8.20093		14 52.8
		23 27.93		+2 18 24.6		−117	
20.0	21 41 10.32	22 44.99	—16 51 52.1	2 27 20.2	8.19976	100	14 50.4
20.5	22 3 55.31	22 7.85	14 24 31.9	2 34 33.9	8.19876	78	14 48.3
21.0	22 26 3.16	21 37.24	11 49 58.0	2 40 14.7	8.19798	56	14 46.8
21.5	22 47 40.40	21 13.67	9 9 43.3	2 44 30.3	8.19742	32	14 45.7
22.0	23 8 54.07	20 57.45	6 25 13.0	2 47 27.7	8.19710	— 6	14 45.0
22.5	23 29 51.52	20 48.91	3 37 45.3	2 49 11.7	8.19704	+ 23	14 44.8
23.0	23 50 40.43	20 48.15	— 0 48 33.6	2 49 45.7	8.19727	53	14 45.3
23.5	0 11 28.58	20 55.37	+ 2 1 12.1	2 49 10.5	8.19780	85	14 46.4
24.0	0 32 23.95	21 10.76	4 50 22.6	2 47 24.7	8.19865	116	14 48.1
24.5	0 53 34.71		7 37 47.3		8.19981		14 50.5
		21 34.45		+2 44 24.6		+148	
25.0	1 15 9.16	22 6.51	+10 22 11.9	2 40 3.8	8.20129	181	14 53.6
25.5	1 37 15.67	22 46.93	13 2 15.7	2 34 12.6	8.20310	211	14 57.3
26.0	2 0 2.60	23 35.43	15 36 28.3	2 26 39.8	8.20521	241	15 1.6
26.5	2 23 38.03	24 31.51	18 3 8.1	2 17 11.7	8.20762	268	15 6.6
27.0	2 48 9.54	25 34.05	20 20 19.8	2 5 33.4	8.21030	292	15 12.2
27.5	3 13 43.59	26 41.36	22 25 53.2	1 51 30.0	8.21322	313	15 18.4
28.0	3 40 24.95	27 50.96	24 17 23.2	1 34 49.7	8.21635	328	15 25.1
28.5	4 8 15.91	28 59.43	25 52 12.9	1 15 25.8	8.21963	338	15 32.1
29.0	4 37 15.34	30 2.74	27 7 38.7	0 53 19.0	8.22301	343	15 39.4
29.5	5 7 18.08		28 0 57.7		8.22644		15 46.8

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Juli 10 *O*	5 41.4	12 53 21.51	−67.32	129.61	− 7 27 35.5	−1008.1
U	18 5.4	13 19 24.27	−67.68	130.93	−10 45 8.6	− 965.2
11 *O*	6 29.7	13 45 47.50	−68.22	132.98	−13 52 52.4	− 909.9
U	18 54.5	14 12 39.35	−68.92	135.64	−16 48 19.2	− 842.4
12 *O*	7 20.0	14 40 6.11	−69.71	138.76	−19 29 3.5	− 762.7
U	19 46.0	15 8 11.85	−70.55	142.10	−21 52 42.6	− 671.5
13 *O*	8 12.7	15 36 57.60	−71.36	145.39	−23 57 0.5	− 569.3
U	20 40.0	16 6 20.89	−72.07	148.32	−25 39 52.0	− 457.3
14 *O*	9 7.8	16 36 15.55	−72.59	150.59	−26 59 30.6	− 337.5
U	21 36.1	17 6 31.80	−72.88	151.90	−27 54 36.3	− 212.1
15 *O*	10 4.5	17 36 56.86	−72.89	152.07	−28 24 21.4	− 84.5
U	22 32.8	18 7 16.20	−72.58	150.99	−28 28 38.2	+ 42.0
16 *O*	11 0.7	18 37 15.02	−71.98	148.71	−28 7 59.1	+ 164.2
U	23 28.1	19 6 39.79	−71.13	145.39	−27 23 33.5	+ 279.3
17 *O*	11 54.7	19 35 19.49	−70.06	141.28	−26 17 1.6	+ 384.9
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18 *U*	0 20.4	20 3 6.46	+68.86	136.47	−24 50 26.7	+ 479.6
O	12 45.2	20 29 56.44	+67.60	131.63	−23 6 3.8	+ 562.8
19 *U*	1 9.1	20 55 48.59	+66.34	126.85	−21 6 12.2	+ 634.3
O	13 32.0	21 20 44.82	+65.12	122.35	−18 53 9.4	+ 694.7
20 *U*	1 54.0	21 44 49.21	+64.01	118.26	−16 29 5.1	+ 744.6
O	14 15.3	22 8 7.47	+63.04	114.70	−13 55 59.6	+ 785.0
21 *U*	2 35.9	22 30 46.43	+62.23	111.75	−11 15 42.0	+ 816.7
O	14 56.0	22 52 53.65	+61.60	109.45	− 8 29 51.1	+ 840.7
22 *U*	3 15.7	23 14 37.14	+61.15	107.84	− 5 39 56.3	+ 857.5
O	15 35.2	23 36 5.27	+60.92	106.93	− 2 47 19.5	+ 867.7
23 *U*	3 54.5	23 57 26.61	+60.89	106.74	+ 0 6 43.2	+ 871.8
O	16 13.8	0 18 49.93	+61.08	107.30	+ 3 0 58.4	+ 869.8
24 *U*	4 33.4	0 40 24.20	+61.48	108.61	+ 5 54 13.0	+ 861.7
O	16 53.3	1 2 18.63	+62.10	110.70	+ 8 45 11.6	+ 846.9
25 *U*	5 13.6	1 24 42.58	+62.93	113.57	+11 32 32.7	+ 825.2
O	17 34.7	1 47 45.51	+63.97	117.23	+14 14 46.0	+ 795.5
26 *U*	5 56.5	2 11 36.85	+65.20	121.68	+16 50 8.8	+ 756.5
O	18 19.3	2 36 25.72	+66.61	126.85	+19 16 43.1	+ 707.1
27 *U*	6 43.2	3 2 20.42	+68.16	132.65	+21 32 13.1	+ 645.5
O	19 8.2	3 29 27.67	+69.79	138.93	+23 34 3.7	+ 570.2
28 *U*	7 34.5	3 57 51.79	+71.44	145.43	+25 19 22.4	+ 479.9
O	20 2.2	4 27 33.56	+73.02	151.80	+26 45 3.4	+ 373.7
29 *U*	8 31.1	4 58 29.02	+74.43	157.59	+27 47 55.7	+ 251.7
O	21 1.0	5 30 28.78	+75.57	162.34	+28 24 57.9	+ 115.6

Mittlerer Mittag und Mitternacht.

Datum		Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Juli	29.0	4 37 15.34	30 2.74	+27 7 38.7	+0 53 19.0	8.22301	+343	15 39.4
	29.5	5 7 18.08	30 56.39	28 0 57.7	0 28 43.3	8.22644	340	15 46.8
	30.0	5 38 14.47	31 36.18	28 29 41.0	+0 2 5.4	8.22984	330	15 54.2
	30.5	6 9 50.65	31 58.91	28 31 46.4	−0 25 54.8	8.23314	313	16 1.5
	31.0	6 41 49.56	32 3.09	28 5 51.6	0 54 25.6	8.23627	288	16 8.5
	31.5	7 13 52.65	31 49.20	27 11 26.0	1 22 30.6	8.23915	257	16 14.9
Aug.	1.0	7 45 41.85	31 19.78	25 48 55.4	1 49 13.1	8.24172	219	16 20.7
	1.5	8 17 1.63	30 38.74	23 59 42.3	2 13 44.4	8.24391	175	16 25.7
	2.0	8 47 40.37	29 50.63	21 45 57.9	2 35 24.0	8.24566	127	16 29.7
	2.5	9 17 31.00	28 59.96	19 10 33.9	−2 53 45.2	8.24693	+78	16 32.5
	3.0	9 46 30.96	28 10.64	+16 16 48.7	3 8 32.6	8.24771	+25	16 34.3
	3.5	10 14 41.60	27 25.84	13 8 16.1	3 19 40.3	8.24796	−25	16 34.9
	4.0	10 42 7.44	26 47.76	9 48 35.8	3 27 11.2	8.24771	73	16 34.3
	4.5	11 8 55.20	26 17.84	6 21 24.6	3 31 12.8	8.24698	118	16 32.7
	5.0	11 35 13.04	25 56.95	+2 50 11.8	3 31 55.9	8.24580	158	16 30.0
	5.5	12 1 9.99	25 45.32	−0 41 44.1	3 29 33.6	8.24422	192	16 26.4
	6.0	12 26 55.31	25 42.88	4 11 17.7	3 24 17.9	8.24230	222	16 22.0
	6.5	12 52 38.19	25 49.12	7 35 35.6	3 16 21.1	8.24008	243	16 17.0
	7.0	13 18 27.31	26 3.28	10 51 56.7	3 5 54.1	8.23765	259	16 11.6
	7.5	13 44 30.59	26 24.13	13 57 50.8	−2 53 7.1	8.23506	−270	16 5.8
	8.0	14 10 54.72	26 50.12	−16 50 57.9	2 38 9.1	8.23236	275	15 59.8
	8.5	14 37 44.84	27 19.30	19 29 7.0	2 21 9.9	8.22961	277	15 53.7
	9.0	15 5 4.14	27 49.30	21 50 16.9	2 2 20.9	8.22684	272	15 47.7
	9.5	15 32 53.44	28 17.41	23 52 37.8	1 41 55.4	8.22412	265	15 41.8
	10.0	16 1 10.85	28 40.88	25 34 33.2	1 20 10.8	8.22147	256	15 36.0
	10.5	16 29 51.73	28 57.01	26 54 44.0	0 57 28.6	8.21891	246	15 30.5
	11.0	16 58 48.74	29 3.61	27 52 12.6	0 34 13.6	8.21645	234	15 25.3
	11.5	17 27 52.35	28 59.23	28 26 26.2	−0 10 53.5	8.21411	221	15 20.3
	12.0	17 56 51.58	28 43.47	28 37 19.7	+0 12 3.4	8.21190	207	15 15.6
	12.5	18 25 35.05	28 16.91	28 25 16.3	+0 34 9.6	8.20983	−194	15 11.3
	13.0	18 53 51.96	27 41.11	−27 51 6.7	0 55 1.6	8.20789	180	15 7.2
	13.5	19 21 33.07	26 58.22	26 56 5.1	1 14 20.6	8.20609	165	15 3.5
	14.0	19 48 31.29	26 10.77	25 41 44.5	1 31 53.7	8.20444	151	15 0.0
	14.5	20 14 42.06	25 21.29	24 9 50.8	1 47 33.4	8.20293	138	14 56.9
	15.0	20 40 3.35	24 32.06	22 22 17.4	2 1 17.2	8.20155	124	14 54.1
	15.5	21 4 35.41	23 45.01	20 21 0.2	2 13 7.0	8.20031	109	14 51.5
	16.0	21 28 20.42	23 1.74	18 7 53.2	2 23 6.6	8.19922	94	14 49.3
	16.5	21 51 22.16	22 23.32	15 44 46.6	2 31 21.6	8.19828	78	14 47.4
	17.0	22 13 45.48	21 50.59	13 13 25.0	2 37 58.5	8.19750	62	14 45.8
	17.5	22 35 36.07		10 35 26.5		8.19688		14 44.5

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Juli 29 *U*	8 31.1	4 58 29.02	+74.43	157.59	+27 47 55.7	+ 251.7
O	21 1.0	5 30 28.78	+75.57	162.34	+28 24 57.9	+ 115.6
30 *U*	9 31.8	6 3 17.95	+76.35	165.70	+28 33 36.0	− 31.7
O	22 3.1	6 36 37.19	+76.70	167.26	+28 12 0.5	− 185.8
31 *U*	10 34.5	7 10 4.63	+76.62	166.98	+27 19 23.3	− 341.0
O	23 5.7	7 43 18.60	+76.13	164.99	+25 56 6.6	− 491.4
Aug. 1 *U*	11 36.3	8 16 0.36	+75.31	161.61	+24 3 42.2	− 631.3
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2 *O*	0 6.2	8 47 55.94	+74.26	157.51	+21 44 43.2	− 756.3
U	12 35.1	9 18 57.08	−73.09	152.81	+19 2 29.1	− 863.3
3 *O*	1 3.2	9 49 1.18	−71.92	148.08	+16 0 48.7	− 950.4
U	13 30.3	10 18 10.27	−70.82	143.68	+12 43 46.3	−1016.9
4 *O*	1 56.6	10 46 30.08	−69.87	139.89	+ 9 15 28.4	−1063.0
U	14 22.2	11 14 8.81	−69.11	136.82	+ 5 39 55.2	−1089.5
5 *O*	2 47.2	11 41 16.21	−68.57	134.63	+ 2 0 55.0	−1097.6
U	15 11.9	12 8 2.77	−68.25	133.32	− 1 37 58.0	−1088.5
6 *O*	3 36.5	12 34 39.20	−68.18	132.90	− 5 13 25.2	−1063.4
U	16 1.1	13 1 15.89	−68.32	133.33	− 8 42 21.7	−1023.5
7 *O*	4 25.8	13 28 2.52	−68.67	134.53	−12 1 56.1	− 969.8
U	16 50.9	13 55 7.79	−69.18	136.39	−15 9 27.6	− 903.1
8 *O*	5 16.4	14 22 38.79	−69.81	138.77	−18 2 25.8	− 824.2
U	17 42.4	14 50 40.60	−70.52	141.47	−20 38 28.7	− 734.0
9 *O*	6 8.9	15 19 15.75	−71.24	144.29	−22 55 25.7	− 633.3
U	18 36.0	15 48 23.77	−71.90	146.92	−24 51 18.4	− 523.5
10 *O*	7 3.6	16 18 0.81	−72.43	149.09	−26 24 25.8	− 406.0
U	19 31.5	16 47 59.67	−72.77	150.54	−27 33 28.7	− 283.1
11 *O*	7 59.6	17 18 10.17	−72.86	151.03	−28 17 36.8	− 157.4
U	20 27.7	17 48 19.98	−72.66	150.45	−28 36 31.9	− 31.4
12 *O*	8 55.6	18 18 15.83	−72.19	148.75	−28 30 30.5	+ 91.7
U	21 23.1	18 47 44.86	−71.46	146.04	−28 0 23.1	+ 209.2
13 *O*	9 49.9	19 16 35.84	−70.51	142.48	−27 7 30.6	+ 318.8
U	22 15.9	19 44 40.17	−69.40	138.32	−25 53 37.2	+ 418.9
14 *O*	10 41.1	20 11 52.25	−68.20	133.83	−24 20 43.4	+ 508.7
U	23 5.3	20 38 9.55	−66.96	129.24	−22 30 58.2	+ 587.5
15 *O*	11 28.6	21 3 32.31	−65.73	124.77	−20 26 32.6	+ 655.3
U	23 51.1	21 28 3.15	−64.59	120.60	−18 9 35.4	+ 712.8
16 *O*	12 12.8	21 51 46.39	+63.54	116.68	−15 42 9.0	+ 760.3
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17 *U*	0 33.8	22 14 47.71	+62.64	113.46	−13 6 8.1	+ 798.6
O	12 54.2	22 37 13.62	+61.89	110.81	−10 23 19.4	+ 828.4

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Aug. 17.0	22 13 45.48	21 50.59	−13 13 25.0	+2 37 58.5	8.19750	−62	14 45.8
17.5	22 35 36.07	21 24.16	10 35 26.5	2 43 4.1	8.19688	45	14 44.5
18.0	22 57 0.23	21 4.42	7 52 22.4	2 46 44.3	8.19643	25	14 43.6
18.5	23 18 4.65	20 51.58	5 5 38.1	2 49 4.1	8.19618	−6	14 43.1
19.0	23 38 56.23	20 45.89	−2 16 34.0	2 50 6.7	8.19612	+17	14 43.0
19.5	23 59 42.12	20 47.46	+0 33 32.7	2 49 55.1	8.19629	40	14 43.3
20.0	0 20 29.58	20 56.46	3 23 27.8	2 48 29.4	8.19669	65	14 44.1
20.5	0 41 26.04	21 12.97	6 11 57.2	2 45 48.8	8.19734	90	14 45.4
21.0	1 2 39.01	21 37.11	8 57 46.0	2 41 49.9	8.19824	117	14 47.3
21.5	1 24 16.12	22 8.86	11 39 35.9	+2 36 27.2	8.19941	+146	14 49.7
22.0	1 46 24.98	22 48.10	+14 16 3.1	2 29 34.2	8.20087	174	14 52.7
22.5	2 9 13.08	23 34.54	16 45 37.3	2 21 1.3	8.20261	203	14 56.3
23.0	2 32 47.62	24 27.52	19 6 38.6	2 10 37.8	8.20464	231	15 0.5
23.5	2 57 15.14	25 25.93	21 17 16.4	1 58 12.7	8.20695	258	15 5.2
24.0	3 22 41.07	26 28.16	23 15 29.1	1 43 35.4	8.20953	284	15 10.6
24.5	3 49 9.23	27 31.89	24 59 4.5	1 26 36.9	8.21237	307	15 16.6
25.0	4 16 41.12	28 34.13	26 25 41.4	1 7 13.3	8.21544	326	15 23.1
25.5	4 45 15.25	29 31.37	27 32 54.7	0 45 27.4	8.21870	342	15 30.1
26.0	5 14 46.62	30 19.91	28 18 22.1	+0 21 31.2	8.22212	353	15 37.4
26.5	5 45 6.53	30 56.29	28 39 53.3	−0 4 12.7	8.22565	+357	15 45.1
27.0	6 16 2.82	31 18.01	+28 35 40.6	0 31 10.3	8.22922	355	15 52.9
27.5	6 47 20.83	31 23.88	28 4 30.3	0 58 40.1	8.23277	345	16 0.7
28.0	7 18 44.71	31 14.39	27 5 50.2	1 25 54.3	8.23622	328	16 8.4
28.5	7 49 59.10	30 51.66	25 39 55.9	1 52 4.6	8.23950	302	16 15.7
29.0	8 20 50.76	30 18.90	23 47 51.3	2 16 25.1	8.24252	268	16 22.5
29.5	8 51 9.66	29 39.96	21 31 26.2	2 38 17.7	8.24520	226	16 28.6
30.0	9 20 49.62	28 58.73	18 53 8.5	2 57 11.0	8.24746	179	16 33.8
30.5	9 49 48.35	28 18.70	15 55 57.5	3 12 43.7	8.24925	126	16 37.9
31.0	10 18 7.05	27 42.68	12 43 13.8	3 24 40.6	8.25051	68	16 40.8
31.5	10 45 49.73	27 12.80	9 18 33.2	−3 32 56.1	8.25119	+10	16 42.3
Sept. 1.0	11 13 2.53	26 50.45	+5 45 37.1	3 37 28.8	8.25129	−49	16 42.5
1.5	11 39 52.98	26 36.45	+2 8 8.3	3 38 22.1	8.25080	106	16 41.4
2.0	12 6 29.43	26 31.06	−1 30 13.8	3 35 44.2	8.24974	159	16 39.0
2.5	12 33 0.49	26 34.11	5 5 58.0	3 29 44.7	8.24815	204	16 35.4
3.0	12 59 34.60	26 44.95	8 35 42.7	3 20 36.3	8.24611	245	16 30.7
3.5	13 26 19.55	27 2.61	11 56 19.0	3 8 32.3	8.24366	278	16 25.1
4.0	13 53 22.16	27 25.54	15 4 51.3	2 53 47.3	8.24088	303	16 18.8
4.5	14 20 47.70	27 51.87	17 58 38.6	2 36 36.8	8.23785	323	16 12.0
5.0	14 48 39.57	28 19.28	20 35 15.4	2 17 19.0	8.23462	331	16 4.8
5.5	15 16 58.85		22 52 34.4		8.23131		15 57.5

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
	h m	h m s	s	s	° ′ ″	″
Aug. 17 *U*	0 33.8	22 14 47.71	+62.64	113.46	−13 6 8.1	+ 798.6
O	12 54.2	22 37 13.62	+61.89	110.81	−10 23 19.4	+ 828.4
18 *U*	1 14.2	22 59 11.27	+61.31	108.79	− 7 35 20.6	+ 850.2
O	13 33.7	23 20 48.19	+60.93	107.40	− 4 43 43.5	+ 864.8
19 *U*	1 53.1	23 42 12.16	+60.75	106.67	− 1 49 52.5	+ 872.5
O	14 12.4	0 3 31.20	+60.75	106.62	+ 1 4 50.9	+ 873.6
20 *U*	2 31.8	0 24 53.43	+60.96	107.24	+ 3 59 8.4	+ 868.2
O	14 51.3	0 46 27.13	+61.37	108.57	+ 6 51 41.7	+ 856.2
21 *U*	3 11.2	1 8 20.73	+62.00	110.60	+ 9 41 10.8	+ 837.5
O	15 31.5	1 30 42.86	+62.81	113.35	+12 26 10.8	+ 811.3
22 *U*	3 52.5	1 53 42.04	+63.82	116.81	+15 5 10.5	+ 777.1
O	16 14.2	2 17 26.80	+65.00	120.97	+17 36 28.6	+ 734.1
23 *U*	4 36.8	2 42 5.18	+66.34	125.77	+19 58 11.9	+ 681.1
O	17 0.4	3 7 44.43	+67.80	131.13	+22 8 13.6	+ 617.0
24 *U*	5 25.1	3 34 30.38	+69.34	136.88	+24 4 12.8	+ 540.5
O	17 51.0	4 2 26.64	+70.88	142.81	+25 43 34.5	+ 450.4
25 *U*	6 18.1	4 31 33.73	+72.36	148.62	+27 3 34.0	+ 346.5
O	18 46.3	5 1 48.26	+73.69	153.95	+28 1 23.2	+ 228.8
26 *U*	7 15.5	5 33 2.26	+74.78	158.42	+28 34 22.1	+ 98.4
O	19 45.4	6 5 3.24	+75.56	161.66	+28 40 12.0	− 42.3
27 *U*	8 15.9	6 37 34.96	+75.97	163.44	+28 17 8.9	− 189.8
O	20 46.6	7 10 18.99	+75.99	163.64	+27 24 18.0	− 339.5
28 *U*	9 17.2	7 42 56.75	+75.66	162.36	+26 1 42.2	− 486.5
O	21 47.4	8 15 11.87	+75.02	159.86	+24 10 23.7	− 625.7
29 *U*	10 17.0	8 46 51.68	+74.17	156.50	+21 52 22.0	− 753.0
O	22 45.9	9 17 48.24	+73.20	152.70	+19 10 22.2	− 864.8
30 *U*	11 14.0	9 47 58.44	+72.22	148.86	+16 7 46.9	− 958.5
O	23 41.4	10 17 23.56	+71.29	145.23	+12 48 23.2	−1032.5
31 *U*	12 8.1	10 46 8.17	−70.50	142.26	+ 9 16 12.5	−1086.2
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Sept. 1 *O*	0 34.2	11 14 19.49	−69.88	139.82	+ 5 35 21.4	−1119.2
U	12 59.9	11 42 6.32	−69.46	138.17	+ 1 49 56.5	−1131.8
2 *O*	1 25.4	12 9 38.34	−69.27	137.34	− 1 56 2.2	−1124.8
U	13 50.9	12 37 5.52	−69.29	137.32	− 5 38 43.8	−1099.1
3 *O*	2 16.3	13 4 37.46	−69.53	138.09	− 9 14 29.6	−1055.6
U	14 42.0	13 32 23.01	−69.94	139.55	−12 39 54.5	− 995.6
4 *O*	3 8.1	14 0 29.74	−70.50	141.57	−15 51 47.6	− 920.5
U	15 34.6	14 29 3.26	−71.15	143.97	−18 47 14.2	− 831.3
5 *O*	4 1.6	14 58 6.87	−71.83	146.54	−21 23 35.9	− 729.8
U	16 29.2	15 27 40.94	−72.48	149.01	−23 38 35.0	− 617.8

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Sept. 5.0	14 48 39.57	28 19.28	−20 35 15.4	−2 17 19.0	8.23462	−331	16 4.8
5.5	15 16 58.85	28 45.09	22 52 34.4	1 56 13.3	8.23131	335	15 57.5
6.0	15 45 43.94	29 6.49	24 48 47.7	1 33 42.5	8.22796	332	15 50.1
6.5	16 14 50.43	29 20.85	26 22 30.2	1 10 12.0	8.22464	325	15 42.9
7.0	16 44 11.28	29 25.92	27 32 42.2	0 46 9.5	8.22139	312	15 35.9
7.5	17 13 37.20	29 20.27	28 18 51.7	−0 22 4.7	8.21827	297	15 29.2
8.0	17 42 57.47	29 3.39	28 40 56.4	+0 1 33.5	8.21530	278	15 22.8
8.5	18 12 0.86	28 35.90	28 39 22.9	0 24 18.6	8.21252	257	15 16.9
9.0	18 40 36.76	27 59.22	28 15 4.3	0 45 47.8	8.20995	235	15 11.5
9.5	19 8 35.98	27 15.54	27 29 16.5	+1 5 43.3	8.20760	−213	15 6.6
10.0	19 35 51.52	26 27.34	−26 23 33.2	1 23 54.0	8.20547	191	15 2.1
10.5	20 2 18.86	25 37.08	24 59 39.2	1 40 13.8	8.20356	167	14 58.2
11.0	20 27 55.94	24 47.00	23 19 25.4	1 54 40.7	8.20189	146	14 54.8
11.5	20 52 42.94	23 59.05	21 24 44.7	2 7 16.6	8.20043	125	14 51.8
12.0	21 16 41.99	23 14.71	19 17 28.1	2 18 5.2	8.19918	103	14 49.2
12.5	21 39 56.70	22 35.14	16 59 22.9	2 27 12.0	8.19815	85	14 47.1
13.0	22 2 31.84	22 1.11	14 32 10.9	2 34 42.2	8.19730	65	14 45.4
13.5	22 24 32.95	21 33.15	11 57 28.7	2 40 41.6	8.19665	45	14 44.0
14.0	22 46 6.10	21 11.63	9 16 47.1	2 45 14.3	8.19620	27	14 43.1
14.5	23 7 17.73	20 56.76	6 31 32.8	+2 48 24.7	8.19593	− 11	14 42.5
15.0	23 28 14.49	20 48.66	− 3 43 8.1	2 50 15.1	8.19582	+ 7	14 42.3
15.5	23 49 3.15	20 47.45	− 0 52 53.0	2 50 46.7	8.19589	24	14 42.5
16.0	0 9 50.60	20 53.18	+ 1 57 53.7	2 50 0.5	8.19613	43	14 43.0
16.5	0 30 43.78	21 5.89	4 47 54.2	2 47 55.0	8.19656	60	14 43.9
17.0	0 51 49.67	21 25.55	7 35 49.2	2 44 27.3	8.19716	79	14 45.1
17.5	1 13 15.22	21 52.12	10 20 16.5	2 39 34.6	8.19795	100	14 46.7
18.0	1 35 7.34	22 25.44	12 59 51.1	2 33 11.2	8.19895	120	14 48.7
18.5	1 57 32.78	23 5.21	15 33 2.3	2 25 10.5	8.20015	140	14 51.2
19.0	2 20 37.99	23 50.83	17 58 12.8	2 15 26.1	8.20155	162	14 54.1
19.5	2 44 28.82	24 41.41	20 13 38.9	+2 3 50.3	8.20317	+185	14 57.4
20.0	3 9 10.23	25 35.64	+22 17 29.2	1 50 15.7	8.20502	208	15 1.2
20.5	3 34 45.87	26 31.71	24 7 44.9	1 34 37.0	8.20710	230	15 5.6
21.0	4 1 17.58	27 27.27	25 42 21.9	1 16 52.0	8.20940	252	15 10.4
21.5	4 28 44.85	28 19.66	26 59 13.9	0 57 2.5	8.21192	273	15 15.7
22.0	4 57 4.51	29 5.88	27 56 16.4	0 35 16.9	8.21465	292	15 21.4
22.5	5 26 10.39	29 43.00	28 31 33.3	+0 11 50.4	8.21757	308	15 27.7
23.0	5 55 53.39	30 8.79	28 43 23.7	−0 12 53.5	8.22065	322	15 34.3
23.5	6 26 2.18	30 21.78	28 30 30.2	0 38 25.1	8.22387	331	15 41.2
24.0	6 56 23.96	30 21.82	27 52 5.1	1 4 10.1	8.22718	335	15 48.4
24.5	7 26 45.78		26 47 55.0		8.23053		15 55.8

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1ʰ Länge	Dekl.	Bew. in 1ʰ Länge
		h m	h m s	s	"	° ' "	"
Sept. 5	O	4 1.6	14 58 6.87	−71.83	146.54	−21 23 35.9	−729.8
	U	16 29.2	15 27 40.94	−72.48	149.01	−23 38 35.0	−617.8
6	O	4 57.2	15 57 42.49	−73.02	151.10	−25 30 16.2	−497.2
	U	17 25.5	16 28 5.18	−73.38	152.51	−26 57 11.9	−370.5
7	O	5 54.0	16 58 39.57	−73.51	153.04	−27 58 25.2	−240.7
	U	18 22.5	17 29 13.85	−73.36	152.51	−28 33 34.4	−110.5
8	O	6 50.8	17 59 35.05	−72.94	150.90	−28 42 54.1	+ 17.1
	U	19 18.7	18 29 30.29	−72.24	148.26	−28 27 12.3	+139.4
9	O	7 46.0	18 58 48.16	−71.31	144.74	−27 47 47.6	+253.9
	U	20 12.4	19 27 19.65	−70.21	140.58	−26 46 22.7	+359.1
10	O	8 38.0	19 54 58.67	−68.99	136.05	−25 24 55.1	+454.2
	U	21 2.7	20 21 42.21	−67.72	131.38	−23 45 30.9	+538.5
11	O	9 26.5	20 47 30.05	−66.45	126.80	−21 50 18.7	+612.1
	U	21 49.4	21 12 24.31	−65.23	122.48	−19 41 24.9	+675.4
12	O	10 11.4	21 36 29.02	−64.11	118.54	−17 20 49.8	+729.0
	U	22 32.7	21 59 49.50	−63.12	115.11	−14 50 27.4	+773.5
13	O	10 53.4	22 22 32.03	−62.28	112.21	−12 12 3.6	+809.3
	U	23 13.6	22 44 43.45	−61.61	109.89	− 9 27 17.9	+837.2
14	O	11 33.3	23 6 30.97	−61.12	108.20	− 6 37 43.7	+857.4
	U	23 52.8	23 28 2.02	−60.80	107.13	− 3 44 49.2	+870.5
15	O	12 12.2	23 49 24.26	+60.68	106.69	− 0 49 59.8	+876.6
—	—	—	—	—	—	—	—
16	U	0 31.5	0 10 45.27	+60.76	106.94	+ 2 5 21.6	+875.8
	O	12 50.9	0 32 12.86	+61.02	107.82	+ 4 59 52.2	+868.1
17	U	1 10.6	0 53 54.77	+61.49	109.35	+ 7 52 7.5	+853.2
	O	13 30.6	1 15 58.81	+62.14	111.55	+10 40 40.0	+830.9
18	U	1 51.2	1 38 32.76	+62.97	114.37	+13 23 58.1	+800.6
	O	14 12.4	2 1 44.24	+63.97	117.83	+16 0 22.6	+761.9
19	U	2 34.3	2 25 40.52	+65.12	121.86	+18 28 6.8	+713.8
	O	14 57.0	2 50 28.19	+66.40	126.40	+20 45 14.8	+655.6
20	U	3 20.7	3 16 12.76	+67.77	131.35	+22 49 40.8	+586.5
	O	15 45.5	3 42 58.21	+69.17	136.52	+24 39 9.4	+505.9
21	U	4 11.2	4 10 46.08	+70.55	141.71	+26 11 18.5	+413.2
	O	16 38.0	4 39 35.12	+71.84	146.65	+27 23 43.0	+308.4
22	U	5 5.7	5 9 20.56	+72.98	151.03	+28 14 1.2	+192.2
	O	17 34.2	5 39 54.02	+73.88	154.55	+28 40 3.4	+ 66.0
23	U	6 3.3	6 11 3.65	+74.48	156.97	+28 40 2.8	− 67.9
	O	18 32.8	6 42 35.24	+74.76	158.13	+28 12 44.5	−206.5
24	U	7 2.4	7 14 13.48	+74.73	158.02	+27 17 33.3	−346.1
	O	19 31.8	7 45 43.65	+74.40	156.76	+25 54 39.5	−482.9

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ' "	° ' "			' "
Sept. 24.0	6 56 23.96	30 21.82	+27 52 5.1	−1 4 10.1	8.22718	+335	15 48.4
24.5	7 26 45.78	30 9.94	26 47 55.0	1 29 30.8	8.23053	334	15 55.8
25.0	7 56 55.72	29 48.34	25 18 24.2	1 53 51.7	8.23387	325	16 3.1
25.5	8 26 44.06	29 19.91	23 24 32.5	2 16 38.4	8.23712	308	16 10.3
26.0	8 56 3.97	28 47.87	21 7 54.1	2 37 21.0	8.24020	287	16 17.3
26.5	9 24 51.84	28 15.35	18 30 33.1	2 55 34.5	8.24307	254	16 23.8
27.0	9 53 7.19	27 45.15	15 34 58.6	3 10 58.4	8.24561	216	16 29.6
27.5	10 20 52.34	27 19.57	12 24 0.2	3 23 15.5	8.24777	170	16 34.5
28.0	10 48 11.91	27 0.32	9 0 44.7	3 32 13.3	8.24947	118	16 38.4
28.5	11 15 12.23	26 48.54	5 28 31.4	−3 37 42.2	8.25065	+ 62	16 41.1
29.0	11 42 0.77	26 44.95	+ 1 50 49.2	3 39 36.2	8.25127	+ 4	16 42.5
29.5	12 8 45.72	26 49.69	− 1 48 47.0	3 37 52.2	8.25131	− 55	16 42.6
30.0	12 35 35.41	27 2.52	5 26 39.2	3 32 31.2	8.25076	112	16 41.3
30.5	13 2 37.93	27 22.64	8 59 10.4	3 23 38.1	8.24964	168	16 38.7
Okt. 1.0	13 30 0.57	27 48.83	12 22 48.5	3 11 20.9	8.24796	218	16 34.9
1.5	13 57 49.40	28 19.14	15 34 9.4	2 55 52.8	8.24578	261	16 29.9
2.0	14 26 8.54	28 51.29	18 30 2.2	2 37 31.2	8.24317	297	16 24.0
2.5	14 54 59.83	29 22.40	21 7 33.4	2 16 38.6	8.24020	324	16 17.3
3.0	15 24 22.23	29 49.22	23 24 12.0	1 53 42.0	8.23696	344	16 10.0
3.5	15 54 11.45	30 8.65	25 17 54.0	−1 29 14.3	8.23352	−356	16 2.4
4.0	16 24 20.10	30 17.88	−26 47 8.3	1 3 51.3	8.22996	359	15 54.5
4.5	16 54 37.98	30 14.98	27 50 59.6	0 38 10.9	8.22637	355	15 46.7
5.0	17 24 52.96	29 59.15	28 29 10.5	−0 12 51.1	8.22282	346	15 39.0
5.5	17 54 52.11	29 30.82	28 42 1.6	+0 11 34.5	8.21936	331	15 31.5
6.0	18 24 22.93	28 51.62	28 30 27.1	0 34 37.5	8.21605	312	15 24.4
6.5	18 53 14.55	28 4.05	27 55 49.6	0 55 56.8	8.21293	290	15 17.8
7.0	19 21 18.60	27 10.99	26 59 52.8	1 15 19.6	8.21003	264	15 11.7
7.5	19 48 29.59	26 15.34	25 44 33.2	1 32 39.9	8.20739	237	15 6.2
8.0	20 14 44.93	25 19.83	24 11 53.3	1 47 57.9	8.20502	208	15 1.2
8.5	20 40 4.76	24 26.60	22 23 55.4	+2 1 17.4	8.20294	−178	14 56.9
9.0	21 4 31.36	23 37.38	−20 22 38.0	2 12 45.5	8.20116	150	14 53.3
9.5	21 28 8.74	22 53.39	18 9 52.5	2 22 30.2	8.19966	122	14 50.3
10.0	21 51 2.13	22 15.46	15 47 22.3	2 30 38.4	8.19844	94	14 47.7
10.5	22 13 17.59	21 44.14	13 16 43.9	2 37 17.5	8.19750	68	14 45.8
11.0	22 35 1.73	21 19.67	10 39 26.4	2 42 32.9	8.19682	42	14 44.4
11.5	22 56 21.40	21 2.25	7 56 53.5	2 46 29.0	8.19640	− 19	14 43.5
12.0	23 17 23.65	20 51.89	5 10 24.5	2 49 8.0	8.19621	+ 3	14 43.1
12.5	23 38 15.54	20 48.66	− 2 21 16.5	2 50 31.1	8.19624	23	14 43.2
13.0	23 59 4.20	20 52.49	+ 0 29 14.6	2 50 37.3	8.19647	42	14 43.7
13.5	0 19 56.69		3 19 51.9		8.19689		14 44.5

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Sept. 24 *U*	7 2.4	7 14 13.48	+74.73	158.02	+27 17 33.3	— 346.1
O	19 31.8	7 45 43.65	+74.40	156.76	+25 54 39.5	— 482.9
25 *U*	8 0.9	8 16 53.13	+73.85	154.58	+24 4 58.0	— 613.4
O	20 29.5	8 47 32.73	+73.13	151.80	+21 50 5.4	— 734.2
26 *U*	8 57.6	9 17 37.11	+72.32	148.75	+19 12 15.2	— 842.5
O	21 25.0	9 47 4.82	+71.52	145.74	+16 14 10.9	— 936.1
27 *U*	9 51.8	10 15 57.91	+70.80	143.04	+12 58 59.8	—1013.4
O	22 18.2	10 44 21.34	+70.21	140.85	+ 9 30 7.1	—1072.8
28 *U*	10 44.1	11 12 22.20	+69.78	139.33	+ 5 51 12.4	—1113.5
O	23 9.9	11 40 8.99	+69.57	138.56	+ 2 6 4.9	—1134.7
29 *U*	11 35.5	12 7 51.14	+69.56	138.60	— 1 41 19.8	—1136.1
—	—	—	—	—	—	—
30 *O*	0 1.3	12 35 38.28	—69.78	139.37	— 5 27 2.2	—1117.6
U	12 27.3	13 3 39.71	—70.18	140.92	— 9 7 4.1	—1079.3
Okt. 1 *O*	0 53.6	13 32 3.87	—70.76	143.12	—12 37 31.3	—1021.9
U	13 20.5	14 0 57.74	—71.49	145.81	—15 54 38.4	— 946.1
2 *O*	1 47.9	14 30 25.91	—72.26	148.80	—18 54 52.9	— 853.2
U	14 15.9	15 0 30.24	—73.05	151.79	—21 35 1.4	— 745.3
3 *O*	2 44.5	15 31 8.91	—73.75	154.48	—23 52 16.2	— 624.6
U	15 13.6	16 2 16.22	—74.29	156.53	—25 44 21.0	— 494.1
4 *O*	3 43.0	16 33 42.63	—74.59	157.65	—27 9 39.4	— 357.4
U	16 12.5	17 5 15.40	—74.60	157.60	—28 7 18.1	— 218.3
5 *O*	4 41.8	17 36 39.79	—74.30	156.29	—28 37 11.3	— 80.4
U	17 10.8	18 7 40.63	—73.67	153.75	—28 39 57.5	+ 52.4
6 *O*	5 39.1	18 38 3.99	—72.76	150.12	—28 16 55.0	+ 177.1
U	18 6.6	19 7 38.50	—71.64	145.68	—27 29 53.0	+ 291.9
7 *O*	6 33.2	19 36 16.20	—70.36	140.73	—26 21 0.8	+ 395.3
U	18 58.8	20 3 52.74	—68.98	135.55	—24 52 38.1	+ 487.0
8 *O*	7 23.3	20 30 27.24	—67.60	130.43	—23 7 5.7	+ 567.0
U	19 46.9	20 56 1.61	—66.25	125.56	—21 6 40.5	+ 635.9
9 *O*	8 9.5	21 20 40.01	—65.00	121.11	—18 53 31.2	+ 694.4
U	20 31.3	21 44 28.13	—63.87	117.18	—16 29 35.7	+ 743.6
10 *O*	8 52.3	22 7 32.75	—62.90	113.83	—13 56 42.1	+ 784.2
U	21 12.8	22 30 1.22	—62.09	111.13	—11 16 29.9	+ 816.9
11 *O*	9 32.7	22 52 1.29	—61.47	109.08	— 8 30 30.2	+ 842.1
U	21 52.4	23 13 40.84	—61.04	107.68	— 5 40 9.2	+ 860.4
12 *O*	10 11.8	23 35 7.76	—60.80	106.95	— 2 46 48.9	+ 871.9
U	22 31.1	23 56 30.02	—60.75	106.87	+ 0 8 9.9	+ 876.8
13 *O*	10 50.5	0 17 55.48	—60.91	107.45	+ 3 3 26.1	+ 874.8
U	23 10.1	0 39 32.04	—61.26	108.69	+ 5 57 36.4	+ 865.7

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Okt. 13.0	23 59 4.20	20 52.49	+ 0 29 14.6	+2 50 37.3	8.19647	+ 42	14 43.7
13.5	0 19 56.69	21 3.37	3 19 51.9	2 49 24.6	8.19689	59	14 44.5
14.0	0 41 0.06	21 21.22	6 9 16.5	2 46 49.4	8.19748	76	14 45.7
14.5	1 2 21.28	21 45.86	8 56 5.9	2 42 46.7	8.19824	91	14 47.3
15.0	1 24 7.14	22 17.12	11 38 52.6	2 37 11.1	8.19915	105	14 49.1
15.5	1 46 24.26	22 54.58	14 16 3.7	2 29 55.2	8.20020	119	14 51.3
16.0	2 9 18.84	23 37.57	16 45 58.9	2 20 52.8	8.20139	132	14 53.7
16.5	2 32 56.41	24 25.23	19 6 51.7	2 9 56.9	8.20271	145	14 56.5
17.0	2 57 21.64	25 16.20	21 16 48.6	1 57 1.5	8.20416	159	14 59.5
17.5	3 22 37.84	26 8.69	23 13 50.1	+1 42 3.4	8.20575	+172	15 2.8
18.0	3 48 46.53	27 0.55	+24 55 53.5	1 25 2.0	8.20747	184	15 6.3
18.5	4 15 47.08	27 49.17	26 20 55.5	1 6 1.9	8.20931	199	15 10.2
19.0	4 43 36.25	28 31.82	27 26 57.4	0 45 13.0	8.21130	212	15 14.4
19.5	5 12 8.07	29 5.90	28 12 10.4	+0 22 51.8	8.21342	225	15 18.8
20.0	5 41 13.97	29 29.30	28 35 2.2	−0 0 39.3	8.21567	237	15 23.6
20.5	6 10 43.27	29 40.73	28 34 22.9	0 24 52.5	8.21804	249	15 28.7
21.0	6 40 24.00	29 40.04	28 9 30.4	0 49 17.1	8.22053	259	15 34.0
21.5	7 10 4.04	29 28.21	27 20 13.3	1 13 21.7	8.22312	267	15 39.6
22.0	7 39 32.25	29 7.21	26 6 51.6	1 36 36.1	8.22579	272	15 45.4
22.5	8 8 39.46	28 39.68	24 30 15.5	−1 58 33.7	8.22851	+273	15 51.3
23.0	8 37 19.14	28 8.61	+22 31 41.8	2 18 52.4	8.23124	271	15 57.3
23.5	9 5 27.75	27 36.94	20 12 49.4	2 37 13.4	8.23395	263	16 3.3
24.0	9 33 4.69	27 7.36	17 35 36.0	2 53 21.8	8.23658	249	16 9.2
24.5	10 0 12.05	26 42.03	14 42 14.2	3 7 5.2	8.23907	230	16 14.8
25.0	10 26 54.08	26 22.80	11 35 9.0	3 18 12.3	8.24137	204	16 20.0
25.5	10 53 16.88	26 10.95	8 16 56.7	3 26 32.6	8.24341	172	16 24.6
26.0	11 19 27.83	26 7.39	4 50 24.1	3 31 55.9	8.24513	134	16 28.5
26.5	11 45 35.22	26 12.53	+ 1 18 28.2	3 34 12.2	8.24647	92	16 31.5
27.0	12 11 47.75	26 26.46	− 2 15 44.0	3 33 12.2	8.24739	+ 44	16 33.6
27.5	12 38 14.21	26 48.89	5 48 56.2	−3 28 48.6	8.24783	− 6	16 34.6
28.0	13 5 3.10	27 18.94	− 9 17 44.8	3 20 55.5	8.24777	57	16 34.5
28.5	13 32 22.04	27 55.21	12 38 40.3	3 9 31.8	8.24720	110	16 33.2
29.0	14 0 17.25	28 35.65	15 48 12.1	2 54 41.9	8.24610	160	16 30.7
29.5	14 28 52.90	29 17.45	18 42 54.0	2 36 35.8	8.24450	204	16 27.0
30.0	14 58 10.35	29 57.23	21 19 29.8	2 15 32.7	8.24246	245	16 22.4
30.5	15 28 7.58	30 31.16	23 35 2.5	1 52 0.1	8.24001	280	16 16.9
31.0	15 58 38.74	30 55.41	25 27 2.6	1 26 34.9	8.23721	308	16 10.6
31.5	16 29 34.15	31 6.72	26 53 37.5	1 0 0.1	8.23413	328	16 3.7
Nov. 1.0	17 0 40.87	31 2.91	27 53 37.6	0 33 3.1	8.23085	340	15 56.5
1.5	17 31 43.78		28 26 40.7		8.22745		15 49.0

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Okt. 13 *O*	10 50.5	0 17 55.48	—60.91	107.45	+ 3 3 26.1	+ 874.8
U	23 10.1	0 39 32.04	—61.26	108.69	+ 5 57 36.4	+ 865.7
14 *O*	11 30.0	1 1 27.47	—61.79	110.56	+ 8 49 13.4	+ 849.1
U	23 50.3	1 23 49.44	+62.52	113.22	+11 36 43.8	+ 824.5
15 *O*	12 11.2	1 46 45.45	+63.41	116.37	+14 18 27.9	+ 791.3
—	—	—	—	—	—	—
16 *U*	0 32.8	2 10 22.51	+64.46	120.08	+16 52 37.2	+ 748.6
O	12 55.2	2 34 47.05	+65.63	124.29	+19 17 14.5	+ 695.7
17 *U*	1 18.5	3 0 4.36	+66.90	128.89	+21 30 13.8	+ 632.0
O	13 42.7	3 26 18.30	+68.21	133.71	+23 29 21.2	+ 556.9
18 *U*	2 7.8	3 53 30.52	+69.52	138.57	+25 12 17.4	+ 470.1
O	14 34.0	4 21 40.05	+70.76	143.21	+26 36 42.3	+ 371.7
19 *U*	3 1.0	4 50 42.74	+71.86	147.35	+27 40 20.7	+ 262.4
O	15 28.7	5 20 31.09	+72.75	150.73	+28 21 9.7	+ 143.7
20 *U*	3 57.0	5 50 54.46	+73.39	153.11	+28 37 27.6	+ 17.7
O	16 25.7	6 21 39.87	+73.72	154.32	+28 28 2.5	— 113.0
21 *U*	4 54.6	6 52 33.06	+73.76	154.35	+27 52 17.4	— 245.2
O	17 23.3	7 23 20.15	+73.52	153.27	+26 50 13.2	— 375.6
22 *U*	5 51.8	7 53 48.96	+73.03	151.30	+25 22 30.0	— 501.2
O	18 19.7	8 23 50.15	+72.38	148.69	+23 30 22.2	— 619.3
23 *U*	6 47.2	8 53 17.95	+71.63	145.76	+21 15 32.7	— 727.9
O	19 14.0	9 22 10.18	+70.85	142.81	+18 40 7.3	— 825.0
24 *U*	7 40.2	9 50 28.09	+70.13	140.10	+15 46 30.0	— 909.6
O	20 6.0	10 18 15.81	+69.51	137.83	+12 37 18.6	— 980.5
25 *U*	8 31.3	10 45 39.73	+69.05	136.18	+ 9 15 22.4	—1036.8
O	20 56.4	11 12 48.01	+68.76	135.27	+ 5 43 41.5	—1077.6
26 *U*	9 21.4	11 39 49.88	+68.71	135.17	+ 2 5 27.0	—1102.1
O	21 46.5	12 6 55.33	+68.86	135.91	— 1 35 59.2	—1109.4
27 *U*	10 11.8	12 34 14.47	+69.24	137.49	— 5 17 4.9	—1098.6
O	22 37.4	13 1 57.20	+69.83	139.87	— 8 54 8.2	—1068.7
28 *U*	11 3.6	13 30 12.51	+70.61	142.94	—12 23 18.7	—1019.5
O	23 30.5	13 59 7.88	+71.51	146.55	—15 40 42.7	— 950.9
29 *U*	11 58.1	14 28 48.43	—72.50	150.28	—18 42 28.5	— 863.2
—	—	—	—	—	—	—
30 *O*	0 26.5	14 59 15.95	—73.47	154.16	—21 24 53.4	— 757.6
U	12 55.7	15 30 28.14	—74.35	157.66	—23 44 34.7	— 636.2
31 *O*	1 25.5	16 2 17.98	—75.04	160.39	—25 38 41.1	— 502.3
U	13 55.7	16 34 33.71	—75.44	161.97	—27 5 4.9	— 359.9
Nov. 1 *O*	2 26.1	17 6 59.66	—75.51	162.10	—28 2 30.7	— 213.5
U	14 56.3	17 39 17.59	—75.19	160.68	—28 30 41.9	— 68.2

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Nov. 1.0	17 0 40.87	31 2.91	−27 53 37.6	−0 33 3.1	8.23085	−340	15 56.5
1.5	17 31 43.78	30 43.33	28 26 40.7	−0 6 31.4	8.22745	345	15 49.0
2.0	18 2 27.11	30 9.02	28 33 12.1	+0 18 52.1	8.22400	343	15 41.5
2.5	18 32 36.13	29 22.34	28 14 20.0	0 42 33.7	8.22057	335	15 34.1
3.0	19 1 58.47	28 26.71	27 31 46.3	1 4 9.7	8.21722	320	15 26.9
3.5	19 30 25.18	27 25.81	26 27 36.6	1 23 27.3	8.21402	301	15 20.1
4.0	19 57 50.99	26 23.11	25 4 9.3	1 40 22.9	8.21101	278	15 13.8
4.5	20 24 14.10	25 21.69	23 23 46.4	1 55 0.6	8.20823	250	15 7.9
5.0	20 49 35.79	24 23.91	21 28 45.8	2 7 28.9	8.20573	221	15 2.7
5.5	21 13 59.70	23 31.47	19 21 16.9	+2 17 58.9	8.20352	−188	14 58.1
6.0	21 37 31.17	22 45.60	−17 3 18.0	2 26 42.6	8.20164	158	14 54.2
6.5	22 0 16.77	22 6.91	14 36 35.4	2 33 50.6	8.20006	123	14 51.0
7.0	22 22 23.68	21 35.86	12 2 44.8	2 39 32.2	8.19883	90	14 48.5
7.5	22 43 59.54	21 12.57	9 23 12.6	2 43 54.9	8.19793	58	14 46.7
8.0	23 5 12.11	20 57.14	6 39 17.7	2 47 4.2	8.19735	− 27	14 45.5
8.5	23 26 9.25	20 49.49	3 52 13.5	2 49 2.3	8.19708	+ 2	14 44.9
9.0	23 46 58.74	20 49.58	− 1 3 11.2	2 49 50.5	8.19710	30	14 45.0
9.5	0 7 48.32	20 57.36	+ 1 46 39.3	2 49 26.2	8.19740	54	14 45.6
10.0	0 28 45.68	21 12.70	4 36 5.5	2 47 46.2	8.19794	80	14 46.7
10.5	0 49 58.38	21 35.47	7 23 51.7	+2 44 45.2	8.19874	+100	14 48.3
11.0	1 11 33.85	22 5.44	+10 8 36.9	2 40 15.1	8.19974	116	14 50.3
11.5	1 33 39.29	22 42.23	12 48 52.0	2 34 7.6	8.20090	133	14 52.7
12.0	1 56 21.52	23 25.28	15 22 59.6	2 26 13.9	8.20223	146	14 55.5
12.5	2 19 46.80	24 13.65	17 49 13.5	2 16 24.0	8.20369	156	14 58.5
13.0	2 44 0.45	25 6.03	20 5 37.5	2 4 30.0	8.20525	166	15 1.7
13.5	3 9 6.48	26 0.62	22 10 7.5	1 50 25.0	8.20691	171	15 5.2
14.0	3 35 7.10	26 55.12	24 0 32.5	1 34 7.4	8.20862	176	15 8.7
14.5	4 2 2.22	27 46.74	25 34 39.9	1 15 39.9	8.21038	180	15 12.4
15.0	4 29 48.96	28 32.38	26 50 19.8	0 55 12.5	8.21218	183	15 16.2
15.5	4 58 21.34	29 9.10	27 45 32.3	+0 33 2.1	8.21401	+184	15 20.1
16.0	5 27 30.44	29 34.34	+28 18 34.4	+0 9 34.8	8.21585	186	15 24.0
16.5	5 57 4.78	29 46.52	28 28 9.2	−0 14 39.1	8.21771	186	15 28.0
17.0	6 26 51.30	29 45.14	28 13 30.1	0 39 4.5	8.21957	187	15 32.0
17.5	6 56 36.44	29 31.17	27 34 25.6	1 3 5.9	8.22144	186	15 36.0
18.0	7 26 7.61	29 6.65	26 31 19.7	1 26 10.7	8.22330	187	15 40.0
18.5	7 55 14.26	28 34.40	25 5 9.0	1 47 52.0	8.22517	186	15 44.0
19.0	8 23 48.66	27 57.73	23 17 17.0	2 7 47.9	8.22703	185	15 48.1
19.5	8 51 46.39	27 19.79	21 9 29.1	2 25 43.2	8.22888	181	15 52.1
20.0	9 19 6.18	26 43.57	18 43 45.9	2 41 28.1	8.23069	178	15 56.1
20.5	9 45 49.75		16 2 17.8		8.23247		16 0.0

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
	h m	h m s	s	s	° ′ ″	″
Nov. 1 *O*	2 26.1	17 6 59.66	—75.51	162.10	—28 2 30.7	—213.5
U	14 56.3	17 39 17.59	—75.19	160.68	—28 30 41.9	— 68.2
2 *O*	3 26.1	18 11 9.10	—74.50	157.77	—28 30 19.9	+ 71.3
U	15 55.2	18 42 17.50	—73.50	153.59	—28 2 56.5	+201.4
3 *O*	4 23.4	19 12 29.58	—72.25	148.48	—27 10 41.4	+319.6
U	16 50.4	19 41 36.59	—70.83	142.83	—25 56 8.0	+424.2
4 *O*	5 16.4	20 9 34.29	—69.33	137.00	—24 21 59.9	+515.3
U	17 41.1	20 36 22.53	—67.83	131.31	—22 30 58.5	+593.2
5 *O*	6 4.8	21 2 4.41	—66.40	125.96	—20 25 36.5	+658.9
U	18 27.4	21 26 45.34	—65.07	121.15	—18 8 13.3	+713.6
6 *O*	6 49.2	21 50 32.44	—63.90	116.98	—15 40 53.2	+758.5
U	19 10.2	22 13 33.72	—62.89	113.50	—13 5 26.1	+794.8
7 *O*	7 30.5	22 35 57.72	—62.09	110.74	—10 23 29.8	+823.5
U	19 50.5	22 57 53.19	—61.48	108.72	— 7 36 31.5	+845.2
8 *O*	8 10.0	23 19 28.91	—61.07	107.41	— 4 45 51.7	+860.5
U	20 29.4	23 40 53.61	—60.88	106.84	— 1 52 45.9	+869.6
9 *O*	8 48.8	0 2 15.98	—60.89	106.99	+ 1 1 31.8	+872.5
U	21 8.2	0 23 44.58	—61.11	107.85	+ 3 55 46.0	+868.8
10 *O*	9 27.9	0 45 27.89	—61.53	109.42	+ 6 48 37.6	+858.5
U	21 48.0	1 7 34.28	—62.15	111.67	+ 9 38 42.0	+840.8
11 *O*	10 8.6	1 30 11.94	—62.96	114.59	+12 24 25.7	+814.9
U	22 29.8	1 53 28.69	—63.93	118.15	+15 4 5.3	+780.0
12 *O*	10 51.9	2 17 31.79	—65.06	122.28	+17 35 46.6	+735.0
U	23 14.8	2 42 27.58	—66.31	126.89	+19 57 23.1	+678.9
13 *O*	11 38.6	3 8 20.94	—67.62	131.84	+22 6 37.0	+611.1
—	—	—	—	—	—	—
14 *U*	0 3.5	3 35 14.74	+68.97	137.15	+24 1 2.2	+530.7
O	12 29.3	4 3 9.13	+70.26	142.12	+25 38 7.5	+437.7
15 *U*	0 56.2	4 32 0.94	+71.44	146.65	+26 55 23.9	+332.6
O	13 23.8	5 1 43.23	+72.43	150.44	+27 50 33.3	+216.7
16 *U*	1 52.1	5 32 5.41	+73.15	153.20	+28 21 38.3	+ 92.2
O	14 20.9	6 2 53.82	+73.57	154.72	+28 27 12.6	— 37.9
17 *U*	2 49.8	6 33 52.96	+73.67	154.92	+28 6 28.9	—170.1
O	15 18.7	7 4 47.05	+73.45	153.85	+27 19 23.4	—301.0
18 *U*	3 47.2	7 35 21.87	+72.94	151.70	+26 6 34.5	—426.9
O	16 15.2	8 5 25.96	+72.25	148.74	+24 29 18.8	—544.9
19 *U*	4 42.6	8 34 51.70	+71.40	145.33	+22 29 23.6	—653.1
O	17 9.3	9 3 35.39	+70.51	141.79	+20 8 57.6	—749.7
20 *U*	5 35.3	9 31 37.21	+69.65	138.40	+17 30 24.1	—834.2
O	18 0.6	9 59 0.52	+68.88	135.42	+14 36 12.7	—906.0

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Nov. 20.0	9 19 6.18	26 43.57	+18 43 45.9	−2 41 28.1	8.23069	+178	15 56.1
20.5	9 45 49.75	26 11.49	16 2 17.8	2 54 57.2	8.23247	170	16 0.0
21.0	10 12 1.24	25 45.42	13 7 20.6	3 6 5.8	8.23417	161	16 3.8
21.5	10 37 46.66	25 26.84	10 1 14.8	3 14 50.5	8.23578	151	16 7.4
22.0	11 3 13.50	25 16.75	6 46 24.3	3 21 7.9	8.23729	134	16 10.8
22.5	11 28 30.25	25 15.75	3 25 16.4	3 24 53.1	8.23863	114	16 13.8
23.0	11 53 46.00	25 24.18	+ 0 0 23.3	3 25 59.4	8.23977	92	16 16.3
23.5	12 19 10.18	25 42.03	− 3 25 36.1	3 24 19.2	8.24069	63	16 18.4
24.0	12 44 52.21	26 8.93	6 49 55.3	3 19 43.5	8.24132	+ 34	16 19.8
24.5	13 11 1.14	26 44.05	10 9 38.8	−3 12 4.2	8.24166	0	16 20.6
25.0	13 37 45.19	27 26.00	−13 21 43.0	3 1 14.5	8.24166	− 37	16 20.6
25.5	14 5 11.19	28 12.79	16 22 57.5	2 47 10.7	8.24129	73	16 19.8
26.0	14 33 23.98	29 1.53	19 10 8.2	2 29 55.5	8.24056	112	16 18.1
26.5	15 2 25.51	29 48.67	21 40 3.7	2 9 39.9	8.23944	149	16 15.6
27.0	15 32 14.18	30 30.12	23 49 43.6	1 46 44.0	8.23795	184	16 12.2
27.5	16 2 44.30	31 1.53	25 36 27.6	1 21 39.7	8.23611	217	16 8.1
28.0	16 33 45.83	31 19.14	26 58 7.3	0 55 9.0	8.23394	243	16 3.3
28.5	17 5 4.97	31 20.27	27 53 16.3	0 28 0.7	8.23151	268	15 57.9
29.0	17 36 25.24	31 3.87	28 21 17.0	−0 1 6.5	8.22883	284	15 52.0
29.5	18 7 29.11	30 30.93	28 22 23.5	+0 24 44.5	8.22599	−296	15 45.8
30.0	18 38 0.04	29 43.93	−27 57 39.0	0 48 52.0	8.22303	301	15 39.4
30.5	19 7 43.97	28 46.60	27 8 47.0	1 10 46.7	8.22002	301	15 32.9
Dez. 1.0	19 36 30.57	27 43.02	25 58 0.3	1 30 12.2	8.21701	293	15 26.5
1.5	20 4 13.59	26 37.24	24 27 48.1	1 47 3.0	8.21408	281	15 20.2
2.0	20 30 50.83	25 32.58	22 40 45.1	2 1 22.6	8.21127	264	15 14.3
2.5	20 56 23.41	24 31.76	20 39 22.5	2 13 20.9	8.20863	242	15 8.8
3.0	21 20 55.17	23 36.63	18 26 1.6	2 23 10.4	8.20621	215	15 3.7
3.5	21 44 31.80	22 48.50	16 2 51.2	2 31 6.0	8.20406	187	14 59.3
4.0	22 7 20.30	22 8.13	13 31 45.2	2 37 20.4	8.20219	155	14 55.4
4.5	22 29 28.43	21 35.88	10 54 24.8	+2 42 5.8	8.20064	−123	14 52.2
5.0	22 51 4.31	21 11.93	− 8 12 19.0	2 45 31.8	8.19941	87	14 49.7
5.5	23 12 16.24	20 56.36	5 26 47.2	2 47 45.4	8.19854	53	14 47.9
6.0	23 33 12.60	20 49.14	− 2 39 1.8	2 48 50.9	8.19801	− 17	14 46.8
6.5	23 54 1.74	20 50.18	+ 0 9 49.1	2 48 50.7	8.19784	+ 17	14 46.5
7.0	0 14 51.92	20 59.45	2 58 39.8	2 47 43.0	8.19801	50	14 46.8
7.5	0 35 51.37	21 16.85	5 46 22.8	2 45 24.8	8.19851	81	14 47.8
8.0	0 57 8.22	21 42.29	8 31 47.6	2 41 49.7	8.19932	110	14 49.5
8.5	1 18 50.51	22 15.53	11 13 37.3	2 36 49.7	8.20042	137	14 51.8
9.0	1 41 6.04	22 56.17	13 50 27.0	2 30 14.5	8.20179	160	14 54.6
9.5	2 4 2.21		16 20 41.5		8.20339		14 57.9

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
		h m	h m s	s	s	° ′ ″	″
Nov. 20	U	5 35.3	9 31 37.21	+69.65	138.40	+17 30 24.1	− 834.2
	O	18 0.6	9 59 0.52	+68.88	135.42	+14 36 12.7	− 906.0
21	U	6 25.4	10 25 51.33	+68.24	133.03	+11 28 57.5	− 964.7
	O	18 49.8	10 52 17.50	+67.78	131.37	+ 8 11 15.6	−1010.4
22	U	7 14.0	11 18 28.33	+67.54	130.52	+ 4 45 46.2	−1042.6
	O	19 38.0	11 44 34.02	+67.51	130.56	+ 1 15 12.4	−1060.9
23	U	8 2.2	12 10 45.21	+67.74	131.50	− 2 17 36.4	−1064.8
	O	20 26.6	12 37 12.76	+68.18	133.32	− 5 49 42.5	−1053 6
24	U	8 51.5	13 4 7.23	+68.85	136.02	− 9 17 57.7	−1026.2
	O	21 16.9	13 31 38.46	+69.71	139.48	−12 39 3.3	− 981.7
25	U	9 43.2	13 59 54.91	+70.73	143.55	−15 49 29.9	− 919.5
	O	22 10.3	14 29 2.84	+71.84	148.02	−18 45 41.7	− 839.0
26	U	10 38.2	14 59 5.34	+72.96	152.59	−21 24 0.5	− 740.7
	O	23 7.1	15 30 1.36	+74.00	156.86	−23 40 57.6	− 625.6
27	U	11 36.8	16 1 44.79	+74.87	160.39	−25 33 24.4	− 496.1
—	—	—	—	—	—	—	—
28	O	0 7.1	16 34 4.25	−75.44	162.67	−26 58 47.9	− 355.7
	U	12 37.7	17 6 43.50	−75.66	163.57	−27 55 24.9	− 209.1
29	O	1 8.3	17 39 23.00	−75.48	162.75	−28 22 32.1	− 61.5
	U	13 38.5	18 11 42.01	−74.88	160.23	−28 20 30.1	+ 81.6
30	O	2 8.1	18 43 21.36	−73.93	156.23	−27 50 39.5	+ 215.7
	U	14 36.8	19 14 5.24	−72.69	151.10	−26 55 9.1	+ 337.7
Dez. 1	O	3 4.4	19 43 42.72	−71.25	145.27	−25 36 39.1	+ 445.5
	U	15 30.8	20 12 8.01	−69.71	139.18	−23 58 5.5	+ 538.2
2	O	3 55.9	20 39 20.04	−68.16	133.11	−22 2 26.3	+ 616.4
	U	16 19.9	21 5 21.50	−66.68	127.42	−19 52 29.9	+ 681.1
3	O	4 42.8	21 30 17.87	−65.29	122.27	−17 30 50.7	+ 733.8
	U	17 4.8	21 54 16.54	−64.07	117.80	−14 59 45.4	+ 775.8
4	O	5 25.9	22 17 26.03	−63.04	114.06	−12 21 12.9	+ 808.5
	U	17 46.4	22 39 55.37	−62.20	111.08	− 9 36 56.4	+ 833.1
5	O	6 6.3	23 1 53.91	−61.57	108.90	− 6 48 26.9	+ 850.8
	U	18 25.9	23 23 31.04	−61.16	107.49	− 3 57 4.4	+ 862.0
6	O	6 45.3	23 44 56.13	−60.96	106.85	− 1 4 2.7	+ 867.4
	U	19 4.7	0 6 18.45	−60.99	106.99	+ 1 49 28.7	+ 866.9
7	O	7 24.1	0 27 47.16	−61.23	107.88	+ 4 42 19.5	+ 860.5
	U	19 43.8	0 49 31.43	−61.70	109.54	+ 7 33 16.9	+ 848.0
8	O	8 4.0	1 11 40.27	−62.36	111.96	+10 21 2.8	+ 828.4
	U	20 24.6	1 34 22.60	−63.22	115.10	+13 4 9.3	+ 801.2
9	O	8 46.0	1 57 47.01	−64.27	118.93	+15 40 57.4	+ 765.2
	U	21 8.2	2 22 1.50	−65.47	123.41	+18 9 34.9	+ 719.2

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ' "	° ' "			' "
Dez. 9.0	1 41 6.04	22 56.17	+13 50 27.0	+2 30 14.5	8.20179	+160	14 54.6
9.5	2 4 2.21	23 43.59	16 20 41.5	2 21 52.6	8.20339	180	14 57.9
10.0	2 27 45.80	24 36.78	18 42 34.1	2 11 32.4	8.20519	197	15 1.6
10.5	2 52 22.58	25 34.21	20 54 6.5	1 59 2.5	8.20716	208	15 5.7
11.0	3 17 56.79	26 33.71	22 53 9.0	1 44 14.3	8.20924	217	15 10.0
11.5	3 44 30.50	27 32.61	24 37 23.3	1 27 3.8	8.21141	221	15 14.6
12.0	4 12 3.11	28 27.58	26 4 27.1	1 7 33.8	8.21362	222	15 19.3
12.5	4 40 30.69	29 15.07	27 12 0.9	0 45 55.6	8.21584	220	15 24.0
13.0	5 9 45.76	29 51.63	27 57 56.5	+0 22 30.8	8.21804	214	15 28.7
13.5	5 39 37.39	30 14.49	28 20 27.3	−0 2 9.8	8.22018	+204	15 33.3
14.0	6 9 51.88	30 22.16	+28 18 17.5	0 27 28.3	8.22222	193	15 37.7
14.5	6 40 14.04	30 14.47	27 50 49.2	0 52 41.9	8.22415	180	15 41.8
15.0	7 10 28.51	29 53.01	26 58 7.3	1 17 8.6	8.22595	166	15 45.7
15.5	7 40 21.52	29 20.49	25 40 58.7	1 40 11.5	8.22761	151	15 49.4
16.0	8 9 42.01	28 40.46	24 0 47.2	2 1 20.5	8.22912	134	15 52.7
16.5	8 38 22.47	27 56.64	21 59 26.7	2 20 14.0	8.23046	119	15 55.6
17.0	9 6 19.11	27 12.60	19 39 12.7	2 36 39.4	8.23165	105	15 58.2
17.5	9 33 31.71	26 31.36	17 2 33.3	2 50 30.1	8.23270	89	16 0.5
18.0	10 0 3.07	25 55.30	14 12 3.2	3 1 45.3	8.23359	76	16 2.5
18.5	10 25 58.37	25 26.21	11 10 17.9	−3 10 26.5	8.23435	+ 63	16 4.2
19.0	10 51 24.58	25 5.41	+ 7 59 51.4	3 16 36.6	8.23498	49	16 5.6
19.5	11 16 29.99	24 53.62	4 43 14.8	3 20 18.2	8.23547	37	16 6.7
20.0	11 41 23.61	24 51.35	+ 1 22 56.6	3 21 32.6	8.23584	24	16 7.5
20.5	12 6 14.96	24 58.76	− 1 58 36.0	3 20 19.4	8.23608	+ 10	16 8.1
21.0	12 31 13.72	25 15.70	5 18 55.4	3 16 36.1	8.23618	− 3	16 8.3
21.5	12 56 29.42	25 41.73	8 35 31.5	3 10 19.1	8.23615	19	16 8.2
22.0	13 22 11.15	26 15.99	11 45 50.6	3 1 23.0	8.23596	34	16 7.8
22.5	13 48 27.14	26 57.11	14 47 13.6	2 49 43.1	8.23562	52	16 7.0
23.0	14 15 24.25	27 43.14	17 36 56.7	2 35 16.1	8.23510	72	16 5.9
23.5	14 43 7.39	28 31.36	20 12 12.8	−2 18 3.2	8.23438	− 91	16 4.3
24.0	15 11 38.75	29 18.37	−22 30 16.0	1 58 11.0	8.23347	112	16 2.3
24.5	15 40 57.12	30 0.27	24 28 27.0	1 35 55.3	8.23235	133	15 59.8
25.0	16 10 57.39	30 32.94	26 4 22.3	1 11 41.2	8.23102	154	15 56.8
25.5	16 41 30.33	30 52.68	27 16 3.5	0 46 4.1	8.22948	174	15 53.4
26.0	17 12 23.01	30 56.74	28 2 7.6	−0 19 47.1	8.22774	193	15 49.6
26.5	17 43 19.75	30 43.99	28 21 54.7	+0 6 22.6	8.22581	209	15 45.4
27.0	18 14 3.74	30 15.01	28 15 32.1	0 31 38.7	8.22372	223	15 40.9
27.5	18 44 18.75	29 32.04	27 43 53.4	0 55 20.8	8.22149	233	15 36.1
28.0	19 13 50.79	28 38.48	26 48 32.6	1 16 57.6	8.21916	240	15 31.1
28.5	19 42 29.27		25 31 35.0		8.21676		15 25.9

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge
		h m	h m s	s	s	° ′ ″	″
Dez. 9	O	8 46.0	1 57 47.01	−64.27	118.93	+15 40 57.4	+ 765.2
	U	21 8.2	2 22 1.50	−65.47	123.41	+18 9 34.9	+ 719.2
10	O	9 31.4	2 47 13.15	−66.80	128.41	+20 27 54.4	+ 661.9
	U	21 55.6	3 13 27.42	−68.20	133.81	+22 33 34.2	+ 592.4
11	O	10 20.9	3 40 47.52	−69.62	139.35	+24 24 0.2	+ 509.4
	U	22 47.3	4 9 13.56	−70.98	144.75	+25 56 30.4	+ 412.9
12	O	11 14.7	4 38 41.72	−72.21	149.66	+27 8 22.9	+ 303.2
	U	23 43.0	5 9 3.85	−73.20	153.72	+27 57 7.6	+ 181.8
13	O	12 12.0	5 40 7.60	+73.89	156.57	+28 20 37.8	+ 51.2
	—	—	—	—	—	—	—
14	U	0 41.4	6 11 36.72	+74.25	158.02	+28 17 24.1	− 84.9
	O	13 11.0	6 43 13.57	+74.23	157.86	+27 46 44.4	− 222.3
15	U	1 40.4	7 14 40.11	+73.88	156.26	+26 48 48.5	− 356.8
	O	14 9.3	7 45 40.48	+73.23	153.49	+25 24 37.8	− 484.3
16	U	2 37.7	8 16 2.37	+72.36	149.89	+23 35 57.0	− 601.3
	O	15 5.2	8 45 38.04	+71.37	145.83	+21 25 4.9	− 705.8
17	U	3 31.9	9 14 24.19	+70.35	141.69	+18 54 41.6	− 796.3
	O	15 57.9	9 42 21.80	+69.38	137.78	+16 7 37.9	− 872.3
18	U	4 23.0	10 9 35.13	+68.51	134.36	+13 6 49.2	− 933.8
	O	16 47.6	10 36 11.05	+67.79	131.61	+ 9 55 7.7	− 981.1
19	U	5 11.7	11 2 18.30	+67.28	129.64	+ 6 35 21.4	−1014.5
	O	17 35.5	11 28 6.78	+66.99	128.53	+ 3 10 14.0	−1034.6
20	U	5 59.1	11 53 47.12	+66.93	128.33	− 0 17 34.2	−1041.4
	O	18 22.8	12 19 30.21	+67.12	129.04	− 3 45 24.5	−1034.8
21	U	6 46.7	12 45 27.17	+67.54	130.67	− 7 10 35.6	−1014.7
	O	19 11.0	13 11 48.65	+68.18	133.16	−10 30 22.7	− 980.7
22	U	7 35.9	13 38 44.61	+69.00	136.44	−13 41 54.4	− 931.9
	O	20 1.5	14 6 23.70	+69.99	140.36	−16 42 11.6	− 868.0
23	U	8 28.0	14 34 52.59	+71.08	144.72	−19 28 9.1	− 788.6
	O	20 55.3	15 4 15.09	+72.19	149.24	−21 56 38.6	− 693.4
24	U	9 23.5	15 34 31.11	+73.24	153.56	−24 4 34.8	− 583.1
	O	21 52.5	16 5 35.93	+74.13	157.29	−25 49 6.5	− 459.4
25	U	10 22.2	16 37 19.88	+74.76	159.96	−27 7 48.3	− 325.2
	O	22 52.3	17 9 28.36	+75.05	161.25	−27 58 54.9	− 184.2
26	U	11 22.5	17 41 43.18	+74.97	160.92	−28 21 32.1	− 41.2
	O	23 52.4	18 13 44.55	+74.49	158.94	−28 15 44.3	+ 99.1
27	U	12 21.9	18 45 13.32	−73.64	155.62	−27 42 32.9	+ 232.0
	—	—	—	—	—	—	—
28	O	0 50.5	19 15 53.18	−72.50	151.01	−26 43 49.5	+ 353.8
	U	13 18.1	19 45 32.14	−71.14	145.58	−25 22 2.1	+ 462.2

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Dez. 28.0	19 13 50.79	28 38.48	−26 48 32.6	+1 16 57.6	8.21916	−240	15 31.1
28.5	19 42 29.27	27 38.18	25 31 35.0	1 36 10.0	8.21676	243	15 25.9
29.0	20 10 7.45	26 35.04	23 55 25.0	1 52 48.9	8.21433	240	15 20.8
29.5	20 36 42.49	25 32.40	22 2 36.1	2 6 55.0	8.21193	234	15 15.7
30.0	21 2 14.89	24 32.98	19 55 41.1	2 18 35.4	8.20959	223	15 10.8
30.5	21 26 47.87	23 38.76	17 37 5.7	2 28 1.5	8.20736	208	15 6.1
31.0	21 50 26.63	22 51.10	15 9 4.2	2 35 26.2	8.20528	188	15 1.8
31.5	22 13 17.73	22 10.84	12 33 38.0	2 41 3.5	8.20340	165	14 57.9
32.0	22 35 28.57		9 52 34.5		8.20175		14 54.5

Phasen des Mondes.

Monat	Tag	h m	Phase
Jan.	6	23 21.9	Neumond
	15	4 55.2	Erstes Viertel
	22	4 33.7	Vollmond
	28	20 27.6	Letztes Viertel
Febr.	5	18 15.5	Neumond
	13	21 27.5	Erstes Viertel
	20	14 56.9	Vollmond
	27	10 9.0	Letztes Viertel
März	7	13 16.1	Neumond
	15	9 51.6	Erstes Viertel
	22	0 49.8	Vollmond
	29	1 51.3	Letztes Viertel
April	6	6 41.8	Neumond
	13	18 32.8	Erstes Viertel
	20	10 26.3	Vollmond
	27	19 2.8	Letztes Viertel
Mai	5	21 17.9	Neumond
	13	0 38.6	Erstes Viertel
	19	20 11.7	Vollmond
	27	12 57.3	Letztes Viertel
Juni	4	8 50.6	Neumond
	11	5 30.9	Erstes Viertel
	18	6 47.3	Vollmond
	26	6 34.4	Letztes Viertel
Juli	3	17 59.8	Neumond
	10	10 31.0	Erstes Viertel
	17	19 0.0	Vollmond
	25	22 52.3	Letztes Viertel
Aug.	2	1 51.7	Neumond
	8	16 56.6	Erstes Viertel
	16	9 20.6	Vollmond
	24	13 11.4	Letztes Viertel
	31	9 31.7	Neumond
Sept.	7	1 59.3	Erstes Viertel
	15	1 39.5	Vollmond
	23	1 23.6	Letztes Viertel
	29	17 50.4	Neumond
Okt.	6	14 39.8	Erstes Viertel
	14	19 0.5	Vollmond
	22	11 46.6	Letztes Viertel
	29	3 22.8	Neumond
Nov.	5	7 28.0	Erstes Viertel
	13	12 5.0	Vollmond
	20	20 50.1	Letztes Viertel
	27	14 34.8	Neumond
Dez.	5	3 52.3	Erstes Viertel
	13	3 53.9	Vollmond
	20	5 9.2	Letztes Viertel
	27	3 52.3	Neumond

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge
		h m	h m s	s	s	° ′ ″	″
Dez. 28	O	0 50.5	19 15 53.18	−72.50	151.01	−26 43 49.5	+353.8
	U	13 18.1	19 45 32.14	−71.14	145.58	−25 22 2.1	+462.2
29	O	1 44.6	20 14 3.05	−69.67	139.75	−23 40 0.3	+556.1
	U	14 9.9	20 41 23.47	−68.18	133.89	−21 40 40.9	+635.2
30	O	2 34.0	21 7 34.84	−66.72	128.28	−19 26 56.4	+700.3
	U	14 57.1	21 32 41.65	−65.36	123.14	−17 1 28.7	+752.6
31	O	3 19.2	21 56 50.45	−64.15	118.62	−14 26 43.5	+793.4
	U	15 40.5	22 20 9.20	−63.11	114.79	−11 44 49.8	+824.2

Mond im Apogäum			Mond im Perigäum		
		h			h
Jan.	10	13	Jan.	23	0
Febr.	6	21	Febr.	20	13
März	5	21	März	21	0
April	2	8	April	18	5
April	30	2	Mai	15	14
Mai	27	21	Juni	9	17
Juni	24	16	Juli	6	13
Juli	22	8	Aug.	3	12
Aug.	18	21	Aug.	31	20
Sept.	15	1	Sept.	29	7
Okt.	12	4	Okt.	27	17
Nov.	8	17	Nov.	24	18
Dez.	6	12	Dez.	21	3

Mittlere Mitternacht Berlin.

Datum		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
Jan.	14	+0.32 s	+1.49 s		+36.5″	−15.5″		8.20696	+528	
	15	+1.81	+1.13	−0.36 s	+21.0	−18.2	−2.7″	8.21224	+634	+106
	16	+2.94	+0.55	−0.58	+2.8	−20.4	−2.2	8.21858	+705	+71
	17	+3.49	−0.32	−0.87	−17.6	−20.2	+0.2	8.22563	+731	+26
	18	+3.17	−1.38	−1.06	−37.8	−15.4	+4.8	8.23294	+701	−30
	19	+1.79	−2.30	−0.92	−53.2	−5.0	+10.4	8.23995	+604	−97
	20	−0.51	−2.73	−0.43	−58.2	+9.7	+14.7	8.24599	+443	−161
	21	−3.24	−2.50	+0.23	−48.5	+24.7	+15.0	8.25042	+235	−208
	22	−5.74	−1.87	+0.63	−23.8	+35.2	+10.5	8.25277	+2	−233
	23	−7.61	−1.22	+0.65	+11.4	+39.5	+4.3	8.25279	−223	−225
	24	−8.83	−0.75	+0.47	+50.9	+38.2	−1.3	8.25056	−413	−190
	25	−9.58	−0.47	+0.28	+89.1	+32.8	−5.4	8.24643	−549	−136
	26	−10.05	−0.38	+0.09	+121.9	+25.2	−7.6	8.24094	−625	−76
	27	−10.43	−0.39	−0.01	+147.1	+16.9	−8.3	8.23469	−645	−20
	28	−10.82	−0.48	−0.09	+164.0	+8.8	−8.1	8.22824	−622	+23
	29	−11.30	−0.53	−0.05	+172.8	+0.9	−7.9	8.22202	−569	+53
	30	−11.83			+173.7			8.21633		
Febr.	13	+3.57	+0.48		−14.0	−18.3		8.21696	+655	
	14	+4.05	−0.36	−0.84	−32.3	−16.7	+1.6	8.22351	+704	+49
	15	+3.69	−1.32	−0.96	−49.0	−10.7	+6.0	8.23055	+711	+7
	16	+2.37	−2.09	−0.77	−59.7	+0.3	+11.0	8.23766	+659	−52
	17	+0.28	−2.38	−0.29	−59.4	+14.4	+14.1	8.24425	+541	−118
	18	−2.10	−2.21	+0.17	−45.0	+28.2	+13.8	8.24966	+360	−181
	19	−4.31	−1.78	+0.43	−16.8	+38.3	+10.1	8.25326	+131	−229
	20	−6.09	−1.35	+0.43	+21.5	+42.3	+4.0	8.25457	−115	−246
	21	−7.44	−1.07	+0.28	+63.8	+40.5	−1.8	8.25342	−346	−231
	22	−8.51	−0.93	+0.14	+104.3	+34.1	−6.4	8.24996	−534	−188
	23	−9.44	−0.93	0.00	+138.4	+24.8	−9.3	8.24462	−662	−128
	24	−10.37	−0.98	−0.05	+163.2	+14.3	−10.5	8.23800	−721	−59
	25	−11.35	−0.98	0.00	+177.5	+4.0	−10.3	8.23079	−718	+3
	26	−12.33	−0.87	+0.11	+181.5	−5.0	−9.0	8.22361	−669	+49
	27	−13.20	−0.55	+0.32	+176.5	−11.9	−6.9	8.21692	−587	+82
	28	−13.75			+164.6			8.21105		
März	14	+3.32	−0.54		−46.9	−11.4		8.22246	+593	
	15	+2.78	−1.21	−0.67	−58.3	−3.8	+7.6	8.22839	+614	+21
	16	+1.57	−1.64	−0.43	−62.1	+6.9	+10.7	8.23453	+594	−20
	17	−0.07	−1.73	−0.09	−55.2	+19.0	+12.1	8.24047	+522	−72
	18	−1.80	−1.56	+0.17	−36.2	+30.1	+11.1	8.24569	+396	−126
	19	−3.36	−1.33	+0.23	−6.1	+38.1	+8.0	8.24965	+217	−179
	20	−4.69	−1.18	+0.15	+32.0	+41.5	+3.4	8.25182	+2	−215
	21	−5.87	−1.14	+0.04	+73.5	+39.7	−1.8	8.25184	−222	−224
	22	−7.01	−1.22	−0.08	+113.2	+33.3	−6.4	8.24962	−425	−203
	23	−8.23		−0.16	+146.5		−9.7	8.24537		−160

Mittlere Mitternacht Berlin.

Datum	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			$\log \sin p_k$		
März 23	− 8.23 s	−1.38 s	−0.16 s	+146.5″	+23.6″	− 9.7″	8.24537	−585	−160
24	− 9.01	−1.50	−0.12	+170.1	+11.7	−11.9	8.23952	−684	− 99
25	−11.11	−1.46	+0.04	+181.8	+ 0.2	−11.5	8.23268	−719	− 35
26	−12.57	−1.16	+0.30	+182.0	− 9.6	− 9.8	8.22549	−697	+ 22
27	−13.73	−0.60	+0.56	+172.4	−16.4	− 6.8	8.21852	−629	+ 68
28	−14.33	+0.13	+0.73	+156.0	−19.7	− 3.3	8.21223	−527	+102
29	−14.20	+0.87	+0.74	+136.3	−19.9	− 0.2	8.20696	−406	+121
30	−13.33			+116.4			8.20290		
April 13	− 0.40	−1.15		− 55.2	+14.5		8.23309	+434	
14	− 1.55	−1.02	+0.13	− 40.7	+23.6	+ 9.1	8.23743	+391	− 43
15	− 2.57	−0.85	+0.17	− 17.1	+31.2	+ 7.6	8.24134	+309	− 82
16	− 3.42	−0.77	+0.08	+ 14.1	+36.1	+ 4.9	8.24443	+188	−121
17	− 4.19	−0.80	−0.03	+ 50.2	+37.7	+ 1.6	8.24631	+ 34	−154
18	− 4.99	−0.97	−0.17	+ 87.9	+35.4	− 2.3	8.24665	−138	−172
19	− 5.96	−1.25	−0.28	+123.3	+29.2	− 6.2	8.24527	−311	−173
20	− 7.21	−1.57	−0.32	+152.5	+19.6	− 9.6	8.24216	−464	−153
21	− 8.78	−1.76	−0.19	+172.1	+ 8.0	−11.6	8.23752	−574	−110
22	−10.54	−1.70	+0.06	+180.1	− 3.6	−11.6	8.23178	−636	− 62
23	−12.24	−1.26	+0.44	+176.5	−13.3	− 9.7	8.22542	−642	− 6
24	−13.50	−0.51	+0.75	+163.2	−19.2	− 5.9	8.21900	−600	+ 42
25	−14.01	+0.33	+0.84	+144.0	−21.3	− 2.1	8.21300	−518	+ 82
26	−13.68	+1.04	+0.71	+122.7	−20.5	+ 0.8	8.20782	−407	+111
27	−12.64	+1.52	+0.48	+102.2	−18.1	+ 2.4	8.20375	−279	+128
28	−11.12	+1.77	+0.25	+ 84.1	−15.5	+ 2.6	8.20096	−143	+136
29	− 9.35			+ 68.6			8.19953		
Mai 12	− 3.51	−0.50		− 15.2	+28.0		8.23692	+192	
13	− 4.01	−0.35	+0.15	+ 12.8	+31.8	+ 3.8	8.23884	+131	− 61
14	− 4.36	−0.33	+0.02	+ 44.6	+33.3	+ 1.5	8.24015	+ 54	− 77
15	− 4.69	−0.48	−0.15	+ 77.9	+32.4	− 0.9	8.24069	− 42	− 96
16	− 5.17	−0.77	−0.29	+110.3	+28.6	− 3.8	8.24027	−150	−108
17	− 5.94	−1.15	−0.38	+138.9	+22.0	− 6.6	8.23877	−265	−115
18	− 7.09	−1.53	−0.38	+160.9	+12.9	− 9.1	8.23612	−373	−108
19	− 8.62	−1.74	−0.21	+173.8	+ 2.2	−10.7	8.23239	−462	− 89
20	−10.36	−1.59	+0.15	+176.0	− 8.4	−10.6	8.22777	−518	− 56
21	−11.95	−1.03	+0.56	+167.6	−16.6	− 8.2	8.22259	−538	− 20
22	−12.98	−0.23	+0.80	+151.0	−21.0	− 4.4	8.21721	−516	+ 22
23	−13.21	+0.59	+0.82	+130.0	−21.7	− 0.7	8.21205	−458	+ 58
24	−12.62	+1.23	+0.64	+108.3	−20.0	+ 1.7	8.20747	−367	+ 91
25	−11.39	+1.63	+0.40	+ 88.3	−17.3	+ 2.7	8.20380	−251	+116
26	− 9.76	+1.81	+0.18	+ 71.0	−14.8	+ 2.5	8.20129	−118	+133
27	− 7.95	+1.87	+0.06	+ 56.2	−13.1	+ 1.7	8.20011	+ 19	+137
28	− 6.08			+ 43.1			8.20030		

Mittlere Mitternacht Berlin.

Datum	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			$\log \sin p_k$		
	s	s	s	″	″	″			
Juni 11	− 5.70	−0.20		+ 81.3	+30.0		8.23828	−140	
12	− 5.90	−0.41	−0.21	+111.3	+26.3	−3.7	8.23688	−195	− 55
13	− 6.31	−0.71	−0.30	+137.6	+20.7	−5.6	8.23493	−249	− 54
14	− 7.02	−1.09	−0.38	+158.3	+13.1	−7.6	8.23244	−302	− 53
15	− 8.11	−1.41	−0.32	+171.4	+ 4.1	−9.0	8.22942	−352	− 50
16	− 9.52	−1.47	−0.06	+175.5	− 5.4	−9.5	8.22590	−394	− 42
17	−10.99	−1.17	+0.30	+170.1	−14.0	−8.6	8.22196	−424	− 30
18	−12.16	−0.53	+0.64	+156.1	−19.7	−5.7	8.21772	−431	− 7
19	−12.69	+0.25	+0.78	+136.4	−22.0	−2.3	8.21341	−413	+ 18
20	−12.44	+0.94	+0.69	+114.4	−21.4	+0.6	8.20928	−369	+ 44
21	−11.50	+1.44	+0.50	+ 93.0	−19.1	+2.3	8.20559	−296	+ 73
22	−10.06	+1.73	+0.29	+ 73.9	−16.3	+2.8	8.20263	−200	+ 96
23	− 8.33	+1.86	+0.13	+ 57.6	−13.9	+2.4	8.20063	− 82	+118
24	− 6.47	+1.87	+0.01	+ 43.7	−12.3	+1.6	8.19981	+ 49	+131
25	− 4.60	+1.82	−0.05	+ 31.4	−11.8	+0.5	8.20030	+185	+136
26	− 2.78			+ 19.6			8.20215		
Juli 10	− 7.45	−0.61		+144.2	+20.0		8.23571	−379	
11	− 8.06	−0.89	−0.28	+164.2	+12.1	−7.9	8.23192	−397	− 18
12	− 8.95	−1.15	−0.26	+176.3	+ 3.5	−8.6	8.22795	−400	− 3
13	−10.10	−1.24	−0.09	+179.8	− 5.4	−8.9	8.22395	−397	+ 3
14	−11.34	−1.04	+0.20	+174.4	−13.5	−8.1	8.21998	−388	+ 9
15	−12.38	−0.53	+0.51	+160.9	−19.3	−5.8	8.21610	−374	+ 14
16	−12.91	+0.15	+0.68	+141.6	−22.2	−2.9	8.21236	−355	+ 19
17	−12.76	+0.82	+0.67	+119.4	−22.3	−0.1	8.20881	−325	+ 30
18	−11.94	+1.33	+0.51	+ 97.1	−20.5	+1.8	8.20556	−278	+ 47
19	−10.61	+1.67	+0.34	+ 76.6	−17.9	+2.6	8.20278	−215	+ 63
20	− 8.94	+1.83	+0.16	+ 58.7	−15.2	+2.7	8.20063	−135	+ 80
21	− 7.11	+1.90	+0.07	+ 43.5	−13.1	+2.1	8.19928	− 38	+ 97
22	− 5.21	+1.88	−0.02	+ 30.4	−11.8	+1.3	8.19890	+ 77	+115
23	− 3.33	+1.82	−0.06	+ 18.6	−11.2	+0.6	8.19967	+202	+125
24	− 1.51	+1.65	−0.17	+ 7.4	−11.7	−0.5	8.20169	+331	+129
25	+ 0.14	+1.32	−0.33	− 4.3	−12.5	−0.8	8.20500	+454	+123
26	+ 1.46			− 16.8			8.20954		
Aug. 9	−11.24	−1.27		+187.7	− 6.1		8.22604	−523	
10	−12.51	−1.02	+0.25	+181.6	−14.5	−8.4	8.22081	−482	+ 41
11	−13.53	−0.50	+0.52	+167.1	−20.3	−5.8	8.21599	−430	+ 52
12	−14.03	+0.19	+0.69	+146.8	−23.3	−3.0	8.21169	−374	+ 56
13	−13.84	+0.84	+0.65	+123.5	−23.4	−0.1	8.20795	−317	+ 57
14	−13.00	+1.34	+0.50	+100.1	−21.7	+1.7	8.20478	−261	+ 56
15	−11.66	+1.68	+0.34	+ 78.4	−19.2	+2.5	8.20217	−204	+ 57
16	− 9.98	+1.84	+0.16	+ 59.2	−16.5	+2.7	8.20013	−139	+ 65
17	− 8.14		+0.07	+ 42.7		+2.3	8.19874		+ 69

Mittlere Mitternacht Berlin.

Datum	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
	s	s	s	″	″	″			
Aug. 17	− 8.14	+1.91	+0.07	+ 42.7	−14.2	+2.3	8.19874	− 70	+ 69
18	− 6.23	+1.91	0.00	+ 28.5	−12.4	+1.8	8.19804	+ 11	+ 81
19	− 4.32	+1.86	−0.05	+ 16.1	−11.4	+1.0	8.19815	+105	+ 94
20	− 2.46	+1.77	−0.09	+ 4.7	−10.9	+0.5	8.19920	+209	+104
21	− 0.69	+1.59	−0.18	− 6.2	−11.1	−0.2	8.20129	+322	+113
22	+ 0.90	+1.32	−0.27	− 17.3	−11.7	−0.6	8.20451	+435	+113
23	+ 2.22	+0.87	−0.45	− 29.0	−11.9	−0.2	8.20886	+544	+109
24	+ 3.09			− 40.9			8.21430		
Sept. 7	−14.64	−0.73		+175.2	−21.9		8.22016	−576	
8	−15.37	+0.07	+0.80	+153.3	−25.2	−3.3	8.21440	−495	+ 81
9	−15.30	+0.82	+0.75	+128.1	−25.3	−0.1	8.20945	−405	+ 90
10	−14.48	+1.39	+0.57	+102.8	−23.3	+2.0	8.20540	−313	+ 92
11	−13.09	+1.73	+0.34	+ 79.5	−20.4	+2.9	8.20227	−228	+ 85
12	−11.36	+1.89	+0.16	+ 59.1	−17.5	+2.9	8.19999	−149	+ 79
13	− 9.47	+1.94	+0.05	+ 41.6	−15.1	+2.4	8.19850	− 72	+ 77
14	− 7.53	+1.92	−0.02	+ 26.5	−13.2	+1.9	8.19778	− 3	+ 69
15	− 5.61	+1.85	−0.07	+ 13.3	−11.8	+1.4	8.19775	+ 68	+ 71
16	− 3.76	+1.76	−0.09	+ 1.5	−11.0	+0.8	8.19843	+140	+ 72
17	− 2.00	+1.61	−0.15	− 9.5	−10.6	+0.4	8.19983	+219	+ 79
18	− 0.39	+1.40	−0.21	− 20.1	−10.5	+0.1	8.20202	+305	+ 86
19	+ 1.01	+1.09	−0.31	− 30.6	−10.3	+0.2	8.20507	+394	+ 89
20	+ 2.10	+0.65	−0.44	− 40.9	− 9.4	+0.9	8.20901	+483	+ 89
21	+ 2.75	+0.10	−0.55	− 50.3	− 6.9	+2.5	8.21384	+568	+ 85
22	+ 2.85	−0.47	−0.57	− 57.2	− 2.0	+4.9	8.21952	+633	+ 65
23	+ 2.38			− 59.2			8.22585		
Okt. 7	−15.72	+1.27		+107.2	−25.7		8.20924	−446	
8	−14.45	+1.71	+0.44	+ 81.5	−22.2	+3.5	8.20478	−328	+118
9	−12.74	+1.93	+0.22	+ 59.3	−18.7	+3.5	8.20150	−216	+112
10	−10.81	+1.99	+0.06	+ 40.6	−15.7	+3.0	8.19934	−109	+107
11	− 8.82	+1.95	−0.04	+ 24.9	−13.6	+2.1	8.19825	− 15	+ 94
12	− 6.87	+1.85	−0.10	+ 11.3	−12.1	+1.5	8.19810	+ 65	+ 80
13	− 5.02	+1.71	−0.14	− 0.8	−11.2	+0.9	8.19875	+137	+ 72
14	− 3.31	+1.55	−0.16	− 12.0	−10.6	+0.6	8.20012	+196	+ 59
15	− 1.76	+1.33	−0.22	− 22.6	−10.1	+0.5	8.20208	+253	+ 57
16	− 0.43	+1.04	−0.29	− 32.7	− 9.4	+0.7	8.20461	+305	+ 52
17	+ 0.61	+0.68	−0.36	− 42.1	− 8.1	+1.3	8.20766	+357	+ 52
18	+ 1.29	+0.26	−0.42	− 50.2	− 5.5	+2.6	8.21123	+413	+ 56
19	+ 1.55	−0.14	−0.40	− 55.7	− 1.2	+4.3	8.21536	+464	+ 51
20	+ 1.41	−0.43	−0.29	− 56.9	+ 4.7	+5.9	8.22000	+511	+ 47
21	+ 0.98	−0.58	−0.15	− 52.2	+12.1	+7.4	8.22511	+541	+ 30
22	+ 0.40			− 40.1			8.23052		

Mittlere Mitternacht Berlin.

Datum		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
Nov.	5	−13.62 s	+1.84 s		+ 61.9″	−20.7″		8.20538	−347	
	6	−11.78	+1.98	+0.14 s	+ 41.2	−16.9	+3.8″	8.20191	−213	+134
	7	− 9.80	+1.98	0.00	+ 24.3	−14.1	+2.8	8.19978	− 84	+129
	8	− 7.82	+1.89	−0.09	+ 10.2	−12.1	+2.0	8.19894	+ 33	+117
	9	− 5.93	+1.73	−0.16	− 1.9	−10.9	+1.2	8.19927	+135	+102
	10	− 4.20	+1.54	−0.19	− 12.8	−10.4	+0.5	8.20062	+217	+ 82
	11	− 2.66	+1.28	−0.26	− 23.2	− 9.9	+0.5	8.20279	+280	+ 63
	12	− 1.38	+0.94	−0.34	− 33.1	− 9.3	+0.6	8.20559	+323	+ 43
	13	− 0.44	+0.55	−0.39	− 42.4	− 7.7	+1.6	8.20882	+348	+ 25
	14	+ 0.11	+0.12	−0.43	− 50.1	− 4.6	+3.1	8.21230	+365	+ 17
	15	+ 0.23	−0.23	−0.35	− 54.7	− 0.1	+4.5	8.21595	+372	+ 7
	16	0.00	−0.43	−0.20	− 54.8	+ 6.0	+6.1	8.21967	+375	+ 3
	17	− 0.43	−0.45	−0.02	− 48.8	+12.7	+6.7	8.22342	+375	0
	18	− 0.88	−0.34	+0.11	− 36.1	+19.1	+6.4	8.22717	+373	− 2
	19	− 1.22	−0.22	+0.12	− 17.0	+24.8	+5.7	8.23090	+360	− 13
	20	− 1.44	−0.16	+0.06	+ 7.8	+29.4	+4.6	8.23450	+333	− 27
	21	− 1.60			+ 37.2			8.23783		
Dez.	5	− 8.34	+1.92		+ 10.6	−12.5		8.20040	− 69	
	6	− 6.42	+1.81	−0.11	− 1.9	−10.7	+1.8	8.19971	+ 68	+137
	7	− 4.61	+1.64	−0.17	− 12.6	− 9.7	+1.0	8.20039	+191	+123
	8	− 2.97	+1.38	−0.26	− 22.3	− 9.4	+0.3	8.20230	+299	+108
	9	− 1.59	+1.03	−0.35	− 31.7	− 9.0	+0.4	8.20529	+378	+ 79
	10	− 0.56	+0.58	−0.45	− 40.7	− 8.0	+1.0	8.20907	+427	+ 49
	11	+ 0.02	+0.06	−0.52	− 48.7	− 5.4	+2.6	8.21334	+445	+ 18
	12	+ 0.08	−0.42	−0.48	− 54.1	− 0.6	+4.8	8.21779	+436	− 9
	13	− 0.34	−0.72	−0.30	− 54.7	+ 6.1	+6.7	8.22215	+399	− 37
	14	− 1.06	−0.75	−0.03	− 48.6	+13.9	+7.8	8.22614	+348	− 51
	15	− 1.81	−0.58	+0.17	− 34.7	+21.0	+7.1	8.22962	+286	− 62
	16	− 2.39	−0.32	+0.26	− 13.7	+26.3	+5.3	8.23248	+226	− 60
	17	− 2.71	−0.13	+0.19	+ 12.6	+29.9	+3.6	8.23474	+165	− 61
	18	− 2.84	−0.07	+0.06	+ 42.5	+31.4	+1.5	8.23639	+112	− 53
	19	− 2.91	−0.17	−0.10	+ 73.9	+31.0	−0.4	8.23751	+ 60	− 52
	20	− 3.08	−0.43	−0.26	+104.9	+28.8	−2.2	8.23811	+ 7	− 53
	21	− 3.51			+133.7			8.23818		

12ʰ Mittl. Zeit	Lage gegen den Erdäquator.							
	i		Δ		☊′		Δ − ☋	
Jan. − 4	21° 56′.02	0.12	188° 27′.93	33.84	359° 25′.94	2.25	0° 31′.43	2.08
6	21 55.90	0.11	187 54.09	33.85	359 28.19	2.26	0 29.35	2.08
16	21 55.79	0.10	187 20.24	33.85	359 30.45	2.26	0 27.27	2.09
26	21 55.69	0.10	186 46.39	33.86	359 32.71	2.26	0 25.18	2.09
Febr. 5	21 55.59	0.09	186 12.53	33.86	359 34.97	2.27	0 23.09	2.09
15	21 55.50	0.07	185 38.67	33.87	359 37.24	2.27	0 21.00	2.10
25	21 55.43	0.07	185 4.80	33.87	359 39.51	2.27	0 18.90	2.09
März 7	21 55.36	0.06	184 30.93	33.88	359 41.78	2.28	0 16.81	2.10
17	21 55.30	0.05	183 57.05	33.88	359 44.06	2.27	0 14.71	2.10
27	21 55.25	0.05	183 23.17	33.87	359 46.33	2.28	0 12.61	2.10
April 6	21 55.20	0.04	182 49.30	33.88	359 48.61	2.27	0 10.51	2.10
16	21 55.16	0.04	182 15.42	33.87	359 50.88	2.28	0 8.41	2.10
26	21 55.12	0.03	181 41.55	33.87	359 53.16	2.28	0 6.31	2.11
Mai 6	21 55.09	0.01	181 7.68	33.87	359 55.44	2.28	0 4.20	2.10
16	21 55.08	0.01	180 33.81	33.87	359 57.72	2.28	0 2.10	2.11
26	21 55.07	0.00	179 59.94	33.87	0 0.00	2.28	359 59.99	2.10
Juni 5	21 55.07	0.01	179 26.07	33.87	0 2.28	2.28	359 57.89	2.10
15	21 55.08	0.02	178 52.20	33.87	0 4.56	2.28	359 55.79	2.10
25	21 55.10	0.03	178 18.33	33.87	0 6.84	2.28	359 53.69	2.11
Juli 5	21 55.13	0.04	177 44.46	33.86	0 9.12	2.28	359 51.58	2.10
15	21 55.17	0.05	177 10.60	33.87	0 11.40	2.28	359 49.48	2.10
25	21 55.22	0.06	176 36.73	33.86	0 13.68	2.27	359 47.38	2.10
Aug. 4	21 55.28	0.07	176 2.87	33.87	0 15.95	2.27	359 45.28	2.10
14	21 55.35	0.07	175 29.00	33.87	0 18.22	2.27	359 43.18	2.09
24	21 55.42	0.08	174 55.13	33.87	0 20.49	2.27	359 41.09	2.10
Sept. 3	21 55.50	0.10	174 21.26	33.86	0 22.76	2.27	359 38.99	2.09
13	21 55.60	0.10	173 47.40	33.87	0 25.03	2.27	359 36.90	2.09
23	21 55.70	0.10	173 13.53	33.86	0 27.30	2.26	359 34.81	2.08
Okt. 3	21 55.80	0.11	172 39.67	33.86	0 29.56	2.26	359 32.73	2.08
13	21 55.91	0.12	172 5.81	33.86	0 31.82	2.25	359 30.65	2.08
23	21 56.03	0.13	171 31.95	33.85	0 34.07	2.25	359 28.57	2.08
Nov. 2	21 56.16	0.13	170 58.10	33.85	0 36.32	2.25	359 26.49	2.07
12	21 56.29	0.14	170 24.25	33.84	0 38.57	2.24	359 24.42	2.07
22	21 56.43	0.15	169 50.41	33.82	0 40.81	2.24	359 22.35	2.07
Dez. 2	21 56.58	0.16	169 16.59	33.82	0 43.05	2.23	359 20.28	2.06
12	21 56.74	0.17	168 42.77	33.82	0 45.28	2.23	359 18.22	2.06
22	21 56.91	0.18	168 8.95	33.82	0 47.51	2.23	359 16.16	2.05
32	21 57.09		167 35.13		0 49.74		359 14.11	

12h Mittl. Zeit	Aufst. Knoten der Mondbahn	Mittlere Länge des Mondes
Jan. − 4	7° 56′ 32.5″	145° 22′ 16.4″
6	7 24 46.1	277 8 6.7
16	6 52 59.8	48 53 57.0
26	6 21 13.4	180 39 47.3
Febr. 5	5 49 27.1	312 25 37.6
15	5 17 40.7	84 11 27.9
25	4 45 54.4	215 57 18.2
März 7	4 14 8.1	347 43 8.5
17	3 42 21.7	119 28 58.8
27	3 10 35.4	251 14 49.1
April 6	2 38 49.0	23 0 39.4
16	2 7 2.7	154 46 29.7
26	1 35 16.3	286 32 19.9
Mai 6	1 3 30.0	58 18 10.2
16	0 31 43.6	190 4 0.5
26	359 59 57.3	321 49 50.8
Juni 5	359 28 11.0	93 35 41.1
15	358 56 24.6	225 21 31.4
25	358 24 38.3	357 7 21.7
Juli 5	357 52 51.9	128 53 12.0
15	357 21 5.6	260 39 2.3
25	356 49 19.2	32 24 52.6
Aug. 4	356 17 32.9	164 10 42.9
14	355 45 46.5	295 56 33.2
24	355 14 0.2	67 42 23.5
Sept. 3	354 42 13.9	199 28 13.8
13	354 10 27.5	331 14 4.1
23	353 38 41.2	102 59 54.4
Okt. 3	353 6 54.8	234 45 44.7
13	352 35 8.5	6 31 34.9
23	352 3 22.1	138 17 25.2
Nov. 2	351 31 35.8	270 3 15.5
12	350 59 49.5	41 49 5.8
22	350 28 3.1	173 34 56.1
Dez. 2	349 56 16.8	305 20 46.4
12	349 24 30.4	77 6 36.7
22	348 52 44.1	208 52 27.0
32	348 20 57.7	340 38 17.3

Bewegung der mittleren Länge des Mondes nach mittlerer Sonnenzeit

d	° ′ ″
1	13° 10′ 35.0″
2	26 21 10.1
3	39 31 45.1
4	52 42 20.1
5	65 52 55.1
6	79 3 30.2
7	92 14 5.2
8	105 24 40.2
9	118 35 15.2
10	131 45 50.3

h	° ′ ″
1	0° 32′ 56.5″
2	1 5 52.9
3	1 38 49.4
4	2 11 45.8
5	2 44 42.3
6	3 17 38.8
7	3 50 35.2
8	4 23 31.7
9	4 56 28.1
10	5 29 24.6
11	6 2 21.1
12	6 35 17.5
13	7 8 14.0
14	7 41 10.4
15	8 14 6.9
16	8 47 3.4
17	9 19 59.8
18	9 52 56.3
19	10 25 52.7
20	10 58 49.2
21	11 31 45.6
22	12 4 42.1
23	12 37 38.5
24	13 10 35.0

m	′ ″	m	′ ″
1	0′ 32.9″	31	17′ 1.2″
2	1 5.9	32	17 34.1
3	1 38.8	33	18 7.1
4	2 11.8	34	18 40.0
5	2 44.7	35	19 12.9
6	3 17.6	36	19 45.9
7	3 50.6	37	20 18.8
8	4 23.5	38	20 51.8
9	4 56.5	39	21 24.7
10	5 29.4	40	21 57.7
11	6 2.4	41	22 30.6
12	6 35.3	42	23 3.5
13	7 8.2	43	23 36.5
14	7 41.2	44	24 9.4
15	8 14.1	45	24 42.3
16	8 47.1	46	25 15.3
17	9 20.0	47	25 48.2
18	9 52.9	48	26 21.2
19	10 25.9	49	26 54.1
20	10 58.8	50	27 27.1
21	11 31.8	51	28 0.0
22	12 4.7	52	28 32.9
23	12 37.6	53	29 5.9
24	13 10.6	54	29 38.8
25	13 43.5	55	30 11.7
26	14 16.5	56	30 44.7
27	14 49.4	57	31 17.6
28	15 22.3	58	31 50.6
29	15 55.3	59	32 23.5
30	16 28.2	60	32 56.5

s	″
10	5.5
20	11.0
30	16.5
40	22.0
50	27.5
60	32.9

Meridian und Polhöhe von Berlin.

Datum	SONNE		MOND	
	Unterg.	Aufg.	Aufg.	Unterg.
	h m	h m	h m	h m
Jan. 0	3 53	20 14	13 52	23 53
1	3 54	20 13	15 16	—
			Unterg.	Aufg.
2	3 55	20 13	0 7	16 39
3	3 56	20 13	0 26	18 1
4	3 57	20 13	0 52	19 15
5	3 58	20 12	1 29	20 15
6	4 0	20 12	2 21	20 59
7	4 1	20 11	3 27	21 29
8	4 2	20 11	4 41	21 50
9	4 4	20 10	5 56	22 5
10	4 5	20 10	7 11	22 17
11	4 7	20 9	8 24	22 26
12	4 8	20 8	9 35	22 35
13	4 10	20 7	10 46	22 43
14	4 11	20 7	11 59	22 53
15	4 13	20 6	13 14	23 4
16	4 14	20 5	14 34	23 19
17	4 16	20 4	15 59	23 41
18	4 18	20 3	17 23	—
			Aufg.	Unterg.
19	4 19	20 2	0 15	18 41
20	4 21	20 0	1 7	19 42
21	4 23	19 59	2 22	20 25
22	4 25	19 58	3 54	20 52
23	4 27	19 57	5 33	21 11
24	4 28	19 55	7 10	21 25
25	4 30	19 54	8 42	21 37
26	4 32	19 53	10 11	21 48
27	4 34	19 51	11 37	22 0
28	4 36	19 50	13 3	22 13
29	4 37	19 48	14 28	22 30
30	4 39	19 47	15 51	22 54
31	4 41	19 45	17 7	23 27
Febr. 1	4 43	19 43	18 11	—
			Unterg.	Aufg.
2	4 45	19 42	0 14	19 0
3	4 47	19 40	1 16	19 33
4	4 49	19 38	2 28	19 56

Datum	SONNE		MOND	
	Unterg.	Aufg.	Unterg.	Aufg.
	h m	h m	h m	h m
Febr. 5	4 51	19 37	3 43	20 13
6	4 52	19 35	4 59	20 25
7	4 54	19 33	6 12	20 35
8	4 56	19 31	7 24	20 43
9	4 58	19 29	8 35	20 52
10	5 0	19 27	9 47	21 1
11	5 2	19 26	11 1	21 10
12	5 4	19 24	12 17	21 23
13	5 6	19 22	13 37	21 41
14	5 8	19 20	15 0	22 8
15	5 10	19 18	16 19	22 49
16	5 12	19 16	17 27	23 51
17	5 14	19 14	18 17	—
			Aufg.	Unterg.
18	5 16	19 12	1 14	18 50
19	5 17	19 10	2 49	19 13
20	5 19	19 7	4 28	19 30
21	5 21	19 5	6 5	19 43
22	5 23	19 3	7 39	19 54
23	5 25	19 1	9 10	20 5
24	5 27	18 59	10 40	20 18
25	5 29	18 57	12 8	20 34
26	5 30	18 55	13 35	20 55
27	5 32	18 52	14 57	21 25
28	5 34	18 50	16 6	22 9
März 1	5 36	18 48	17 0	23 7
2	5 38	18 46	17 38	—
			Unterg.	Aufg.
3	5 40	18 43	0 16	18 3
4	5 42	18 41	1 31	18 21
5	5 43	18 39	2 46	18 34
6	5 45	18 36	4 0	18 44
7	5 47	18 34	5 13	18 53
8	5 49	18 32	6 25	19 1
9	5 51	18 30	7 37	19 10
10	5 53	18 27	8 49	19 19
11	5 54	18 25	10 5	19 31
12	5 56	18 23	11 24	19 46
13	5 58	18 20	12 45	20 9
14	6 0	18 18	14 5	20 43

Meridian und Polhöhe von Berlin.

Datum	SONNE		MOND	
	Unterg.	Aufg.	Unterg.	Aufg.
	h m	h m	h m	h m
März 15	6 1	18 16	15 15	21 34
16	6 3	18 13	16 10	22 46
17	6 5	18 11	16 49	—
			Aufg.	Unterg.
18	6 7	18 9	0 14	17 15
19	6 9	18 6	1 49	17 33
20	6 10	18 4	3 25	17 47
21	6 12	18 1	5 0	17 59
22	6 14	17 59	6 32	18 11
23	6 16	17 57	8 4	18 22
24	6 17	17 54	9 36	18 37
25	6 19	17 52	11 8	18 56
26	6 21	17 50	12 35	19 23
27	6 23	17 47	13 53	20 2
28	6 24	17 45	14 55	20 55
29	6 26	17 43	15 39	22 2
30	6 28	17 40	16 8	23 17
31	6 30	17 38	16 28	—
			Unterg.	Aufg.
April 1	6 31	17 36	0 33	16 42
2	6 33	17 33	1 48	16 53
3	6 35	17 31	3 1	17 3
4	6 37	17 29	4 13	17 11
5	6 38	17 26	5 25	17 19
6	6 40	17 24	6 38	17 28
7	6 42	17 22	7 53	17 39
8	6 43	17 19	9 12	17 54
9	6 45	17 17	10 33	18 14
10	6 47	17 15	11 53	18 44
11	6 49	17 13	13 7	19 29
12	6 50	17 10	14 7	20 33
13	6 52	17 8	14 49	21 54
14	6 54	17 6	15 18	23 24
15	6 56	17 4	15 38	—
			Aufg.	Unterg.
16	6 57	17 1	0 56	15 53
17	6 59	16 59	2 28	16 5
18	7 1	16 57	3 59	16 17
19	7 3	16 55	5 30	16 28

Datum	SONNE		MOND	
	Unterg.	Aufg.	Aufg.	Unterg.
	h m	h m	h m	h m
April 20	7 4	16 53	7 1	16 41
21	7 6	16 51	8 33	16 58
22	7 8	16 48	10 4	17 21
23	7 9	16 46	11 30	17 54
24	7 11	16 44	12 41	18 43
25	7 13	16 42	13 33	19 46
26	7 15	16 40	14 9	21 0
27	7 16	16 38	14 33	22 16
28	7 18	16 36	14 49	23 32
29	7 20	16 34	15 1	—
			Unterg.	Aufg.
30	7 22	16 32	0 46	15 11
Mai 1	7 23	16 30	1 58	15 20
2	7 25	16 28	3 10	15 28
3	7 27	16 26	4 22	15 37
4	7 28	16 24	5 37	15 48
5	7 30	16 22	6 55	16 1
6	7 32	16 21	8 16	16 19
7	7 33	16 19	9 39	16 46
8	7 35	16 17	10 57	17 27
9	7 37	16 15	12 2	18 26
10	7 38	16 13	12 49	19 42
11	7 40	16 12	13 22	21 9
12	7 41	16 10	13 44	22 40
13	7 43	16 9	14 0	—
			Aufg.	Unterg.
14	7 45	16 7	0 9	14 13
15	7 46	16 5	1 37	14 24
16	7 48	16 4	3 4	14 35
17	7 49	16 3	4 33	14 47
18	7 51	16 1	6 3	15 2
19	7 52	16 0	7 33	15 21
20	7 54	15 58	9 2	15 50
21	7 55	15 57	10 20	16 32
22	7 57	15 56	11 22	17 29
23	7 58	15 54	12 6	18 40
24	7 59	15 53	12 34	19 57
25	8 1	15 52	12 54	21 15
26	8 2	15 51	13 8	22 30
27	8 4	15 50	13 18	23 43

Meridian und Polhöhe von Berlin.

Datum		SONNE Unterg.	SONNE Aufg.	MOND	
				Aufg.	Unterg.
		h m	h m	h m	h m
Mai	28	8 5	15 49	13 27	—
				Unterg.	Aufg.
	29	8 6	15 48	0 54	13 36
	30	8 7	15 47	2 5	13 45
	31	8 9	15 46	3 18	13 54
Juni	1	8 10	15 45	4 35	14 6
	2	8 11	15 44	5 55	14 23
	3	8 12	15 43	7 18	14 47
	4	8 13	15 43	8 40	15 22
	5	8 14	15 42	9 51	16 15
	6	8 15	15 42	10 46	17 28
	7	8 16	15 41	11 24	18 55
	8	8 17	15 41	11 49	20 26
	9	8 18	15 40	12 7	21 56
	10	8 18	15 40	12 20	23 24
	11	8 19	15 39	12 32	—
				Aufg.	Unterg.
	12	8 20	15 39	0 51	12 43
	13	8 21	15 39	2 16	12 54
	14	8 21	15 39	3 43	13 7
	15	8 22	15 39	5 12	13 24
	16	8 22	15 39	6 39	13 49
	17	8 23	15 39	8 1	14 25
	18	8 23	15 39	9 10	15 16
	19	8 23	15 39	10 0	16 22
	20	8 24	15 39	10 34	17 38
	21	8 24	15 39	10 57	18 56
	22	8 24	15 39	11 13	20 13
	23	8 24	15 40	11 25	21 27
	24	8 24	15 40	11 35	22 38
	25	8 24	15 40	11 43	23 49
	26	8 24	15 41	11 52	—
				Unterg.	Aufg.
	27	8 24	15 41	1 0	12 1
	28	8 24	15 42	2 14	12 12
	29	8 24	15 42	3 32	12 26
	30	8 24	15 43	4 54	12 46
Juli	1	8 24	15 44	6 16	13 15

Datum		SONNE Unterg.	SONNE Aufg.	MOND	
				Unterg.	Aufg.
		h m	h m	h m	h m
Juli	2	8 23	15 44	7 33	14 1
	3	8 23	15 45	8 36	15 7
	4	8 22	15 46	9 21	16 31
	5	8 22	15 47	9 52	18 4
	6	8 21	15 48	10 12	19 38
	7	8 21	15 49	10 27	21 10
	8	8 20	15 50	10 40	22 38
	9	8 20	15 51	10 51	—
				Aufg.	Unterg.
	10	8 19	15 52	0 4	11 2
	11	8 18	15 53	1 31	11 14
	12	8 17	15 54	2 58	11 29
	13	8 16	15 55	4 25	11 51
	14	8 15	15 56	5 48	12 22
	15	8 14	15 58	7 0	13 7
	16	8 13	15 59	7 56	14 8
	17	8 12	16 0	8 35	15 21
	18	8 11	16 1	9 1	16 39
	19	8 10	16 3	9 19	17 56
	20	8 9	16 4	9 32	19 11
	21	8 7	16 6	9 42	20 24
	22	8 6	16 7	9 51	21 35
	23	8 5	16 8	9 59	22 45
	24	8 3	16 10	10 8	23 57
	25	8 2	16 11	10 18	—
				Unterg.	Aufg.
	26	8 0	16 13	1 12	10 30
	27	7 59	16 14	2 31	10 46
	28	7 57	16 16	3 52	11 10
	29	7 56	16 17	5 11	11 47
	30	7 54	16 19	6 20	12 43
	31	7 53	16 20	7 14	14 0
Aug.	1	7 51	16 22	7 51	15 31
	2	7 49	16 23	8 15	17 8
	3	7 47	16 25	8 32	18 44
	4	7 46	16 27	8 46	20 16
	5	7 44	16 28	8 57	21 46
	6	7 42	16 30	9 8	23 15
	7	7 40	16 31	9 20	—

Meridian und Polhöhe von Berlin.

Datum	SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
	h m	h m	h m	h m
Aug. 8	7 38	16 33	0 44	9 35
9	7 36	16 35	2 12	9 55
10	7 35	16 36	3 38	10 23
11	7 33	16 38	4 54	11 3
12	7 31	16 39	5 54	11 59
13	7 29	16 41	6 37	13 8
14	7 27	16 43	7 6	14 24
15	7 25	16 45	7 26	15 42
16	7 23	16 46	7 40	16 58
17	7 21	16 48	7 51	18 11
18	7 19	16 50	8 0	19 23
19	7 16	16 51	8 8	20 33
20	7 14	16 53	8 16	21 44
21	7 12	16 55	8 25	22 57
22	7 10	16 56	8 36	—
			Unterg.	Aufg.
23	7 8	16 58	0 13	8 50
24	7 6	17 0	1 32	9 10
25	7 3	17 1	2 51	9 40
26	7 1	17 3	4 4	10 26
27	6 59	17 5	5 3	11 31
28	6 57	17 6	5 46	12 55
29	6 55	17 8	6 16	14 29
30	6 52	17 10	6 36	16 6
31	6 50	17 11	6 51	17 42
Sept. 1	6 48	17 13	7 3	19 16
2	6 45	17 15	7 15	20 48
3	6 43	17 16	7 27	22 21
4	6 41	17 18	7 40	23 53
5	6 39	17 19	7 58	—
			Aufg.	Unterg.
6	6 36	17 21	1 23	8 23
7	6 34	17 23	2 44	9 0
8	6 32	17 25	3 51	9 51
9	6 29	17 26	4 39	10 57
10	6 27	17 28	5 11	12 12
11	6 24	17 30	5 33	13 30
12	6 22	17 31	5 48	14 46
13	6 20	17 33	6 0	16 0
14	6 17	17 35	6 9	17 12

Datum	SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
	h m	h m	h m	h m
Sept. 15	6 15	17 36	6 18	18 23
16	6 13	17 38	6 26	19 34
17	6 10	17 40	6 34	20 46
18	6 8	17 41	6 44	22 1
19	6 5	17 43	6 57	23 18
20	6 3	17 45	7 14	—
			Unterg.	Aufg.
21	6 1	17 46	0 36	7 40
22	5 58	17 48	1 50	8 18
23	5 56	17 50	2 54	9 14
24	5 54	17 51	3 42	10 28
25	5 51	17 53	4 15	11 55
26	5 49	17 55	4 39	13 29
27	5 46	17 57	4 56	15 3
28	5 44	17 58	5 9	16 37
29	5 42	18 0	5 21	18 11
30	5 39	18 2	5 32	19 45
Okt. 1	5 37	18 3	5 45	21 20
2	5 35	18 5	6 1	22 55
3	5 32	18 7	6 24	—
			Aufg.	Unterg.
4	5 30	18 8	0 24	6 56
5	5 28	18 10	1 40	7 43
6	5 25	18 12	2 36	8 45
7	5 23	18 14	3 14	9 59
8	5 21	18 15	3 39	11 17
9	5 18	18 17	3 56	12 34
10	5 16	18 19	4 9	13 48
11	5 14	18 21	4 19	15 1
12	5 12	18 23	4 27	16 12
13	5 9	18 24	4 35	17 22
14	5 7	18 26	4 44	18 34
15	5 5	18 28	4 54	19 49
16	5 3	18 30	5 6	21 6
17	5 0	18 32	5 22	22 24
18	4 58	18 33	5 45	23 40
19	4 56	18 35	6 18	—
			Unterg.	Aufg.
20	4 54	18 37	0 47	7 7

Meridian und Polhöhe von Berlin.

Datum		SONNE Unterg.	SONNE Aufg.	MOND Unterg.	MOND Aufg.
		h m	h m	h m	h m
Okt.	21	4 52	18 39	1 39	8 14
	22	4 50	18 41	2 20	9 35
	23	4 48	18 42	2 42	11 3
	24	4 46	18 44	3 0	12 34
	25	4 44	18 46	3 14	14 4
	26	4 41	18 48	3 26	15 35
	27	4 39	18 50	3 38	17 7
	28	4 37	18 51	3 50	18 41
	29	4 35	18 53	4 4	20 17
	30	4 33	18 55	4 23	21 51
	31	4 31	18 57	4 51	23 17
Nov.	1	4 30	18 59	5 32	—
				Aufg.	Unterg.
	2	4 28	19 1	0 24	6 29
	3	4 26	19 3	1 11	7 41
	4	4 24	19 5	1 41	9 0
	5	4 22	19 6	2 2	10 19
	6	4 20	19 8	2 16	11 35
	7	4 19	19 10	2 27	12 48
	8	4 17	19 12	2 36	13 59
	9	4 15	19 14	2 45	15 9
	10	4 14	19 16	2 53	16 21
	11	4 12	19 17	3 2	17 35
	12	4 10	19 19	3 14	18 51
	13	4 9	19 21	3 28	20 10
	14	4 7	19 23	3 49	21 28
	15	4 6	19 25	4 20	22 39
	16	4 4	19 26	5 4	23 36
	17	4 3	19 28	6 7	—
				Unterg.	Aufg.
	18	4 2	19 30	0 17	7 24
	19	4 0	19 32	0 46	8 49
	20	3 59	19 34	1 6	10 17
	21	3 58	19 35	1 21	11 45
	22	3 57	19 37	1 33	13 12
	23	3 55	19 39	1 44	14 39
	24	3 54	19 40	1 56	16 9
	25	3 53	19 42	2 9	17 42
Nov.	26	3 52	19 44	2 25	19 16
	27	3 51	19 45	2 48	20 46
	28	3 50	19 47	3 22	22 3
	29	3 50	19 48	4 12	23 1
	30	3 49	19 50	5 19	23 39
Dez.	1	3 48	19 51	6 37	—
				Aufg.	Unterg.
	2	3 47	19 52	0 4	7 58
	3	3 47	19 54	0 21	9 17
	4	3 46	19 55	0 33	10 32
	5	3 46	19 57	0 43	11 44
	6	3 45	19 58	0 52	12 54
	7	3 45	19 59	1 0	14 5
	8	3 44	20 0	1 10	15 17
	9	3 44	20 1	1 20	16 33
	10	3 44	20 3	1 33	17 51
	11	3 44	20 4	1 52	19 10
	12	3 44	20 5	2 18	20 25
	13	3 44	20 6	2 58	21 28
	14	3 44	20 7	3 56	22 16
	15	3 44	20 7	5 10	22 48
	16	3 44	20 8	6 35	23 11
	17	3 44	20 9	8 4	23 28
	18	3 44	20 10	9 32	23 40
	19	3 44	20 10	10 59	23 52
	20	3 45	20 11	12 25	—
				Unterg.	Aufg.
	21	3 45	20 11	0 3	13 51
	22	3 46	20 12	0 15	15 20
	23	3 46	20 12	0 29	16 51
	24	3 47	20 13	0 48	18 21
	25	3 47	20 13	1 17	19 43
	26	3 48	20 13	1 59	20 48
	27	3 49	20 13	2 58	21 34
	28	3 50	20 14	4 13	22 4
	29	3 51	20 14	5 34	22 24
	30	3 52	20 14	6 55	22 39
	31	3 53	20 14	8 13	22 50

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Jan.	0	17 5 39.44	+4 58.77	−21 18 34.5	−14 50.8	0.032326	22 28	4 2
	1	17 10 38.21	5 8.95	21 33 25.3	14 26.6	0.039796	22 29	4 1
	2	17 15 47.16	5 18.17	21 47 51.9	13 55.9	0.046913	22 30	3 59
	3	17 21 5.33	5 26.54	22 1 47.8	13 19.5	0.053688	22 31	3 57
	4	17 26 31.87	+5 34.17	22 15 7.3	−12 38.1	0.060135	22 33	3 56
	5	17 32 6.04	5 41.14	−22 27 45.4	11 52.3	0.066268	22 34	3 55
	6	17 37 47.18	5 47.52	22 39 37.7	11 2.4	0.072098	22 36	3 53
	7	17 43 34.70	5 53.35	22 50 40.1	10 8.9	0.077639	22 38	3 52
	8	17 49 28.05	5 58.71	23 0 49.0	9 12.2	0.082903	22 40	3 50
	9	17 55 26.76	+6 3.65	23 10 1.2	−8 12.7	0.087901	22 42	3 49
	10	18 1 30.41	6 8.19	−23 18 13.9	7 10.5	0.092644	22 44	3 48
	11	18 7 38.60	6 12.40	23 25 24.4	6 6.1	0.097142	22 46	3 47
	12	18 13 51.00	6 16.29	23 31 30.5	4 59.5	0.101405	22 49	3 47
	13	18 20 7.29	6 19.88	23 36 30.0	3 50.9	0.105442	22 51	3 46
	14	18 26 27.17	+6 23.20	23 40 20.9	−2 40.5	0.109262	22 53	3 45
	15	18 32 50.37	6 26.29	−23 43 1.4	1 28.6	0.112873	22 56	3 45
	16	18 39 16.66	6 29.14	23 44 30.0	−0 15.1	0.116281	22 58	3 45
	17	18 45 45.80	6 31.79	23 44 45.1	+0 59.7	0.119494	23 1	3 45
	18	18 52 17.59	6 34.24	23 43 45.4	2 15.8	0.122517	23 3	3 45
	19	18 58 51.83	+6 36.51	23 41 29.6	+3 33.1	0.125357	23 6	3 45
	20	19 5 28.34	6 38.62	−23 37 56.5	4 51.6	0.128018	23 9	3 46
	21	19 12 6.96	6 40.58	23 33 4.9	6 11.0	0.130504	23 11	3 46
	22	19 18 47.54	6 42.40	23 26 53.9	7 31.4	0.132820	23 14	3 47
	23	19 25 29.94	6 44.06	23 19 22.5	8 52.8	0.134968	23 17	3 48
	24	19 32 14.00	+6 45.61	23 10 29.7	+10 14.9	0.136952	23 20	3 49
	25	19 38 59.61	6 47.04	−23 0 14.8	11 37.9	0.138774	23 22	3 50
	26	19 45 46.65	6 48.35	22 48 36.9	13 1.6	0.140436	23 25	3 52
	27	19 52 35.00	6 49.56	22 35 35.3	14 26.0	0.141938	23 28	3 53
	28	19 59 24.56	6 50.67	22 21 9.3	15 51.0	0.143282	23 31	3 55
	29	20 6 15.23	+6 51.69	22 5 18.3	+17 16.7	0.144467	23 34	3 57
	30	20 13 6.92	6 52.62	−21 48 1.6	18 42.8	0.145493	23 37	3 59
	31	20 19 59.54	6 53.46	21 29 18.8	20 9.4	0.146360	23 40	4 1
Febr.	1	20 26 53.00	6 54.24	21 9 9.4	21 36.6	0.147065	23 43	4 3
	2	20 33 47.24	6 54.94	20 47 32.8	23 4.1	0.147607	23 46	4 6
	3	20 40 42.18	+6 55.57	20 24 28.7	+24 32.0	0.147983	23 49	4 8
	4	20 47 37.75	6 56.15	−19 59 56.7	26 0.1	0.148189	23 52	4 11
	5	20 54 33.90	6 56.66	19 33 56.6	27 28.4	0.148221	23 55	4 14
	6	21 1 30.56	6 57.12	19 6 28.2	28 56.9	0.148075	23 58	4 17
	7	21 8 27.68	6 57.52	18 37 31.3	30 25.5	0.147745	0 1	4 20
	8	21 15 25.20		18 7 5.8		0.147223	0 4	4 23

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 7	21 8 27.68	+6 57.52	−18 37 31.3	+30 25.5	0.147745	0 1	4 20
8	21 15 25.20	6 57.87	18 7 5.8	31 54.0	0.147223	0 4	4 23
9	21 22 23.07	6 58.15	17 35 11.8	33 22.3	0.146503	0 7	4 27
10	21 29 21.22	6 58.37	17 1 49.5	34 50.4	0.145576	0 10	4 30
11	21 36 19.59	+6 58.52	16 26 59.1	+36 18.0	0.144433	0 13	4 34
12	21 43 18.11	6 58.58	−15 50 41.1	37 45.0	0.143062	0 16	4 37
13	21 50 16.69	6 58.55	15 12 56.1	39 11.0	0.141453	0 19	4 41
14	21 57 15.24	6 58.40	14 33 45.1	40 35.9	0.139592	0 22	4 45
15	22 4 13.64	6 58.11	13 53 9.2	41 59.4	0.137464	0 25	4 49
16	22 11 11.75	+6 57.65	13 11 9.8	+43 21.0	0.135054	0 28	4 53
17	22 18 9.40	6 56.99	−12 27 48.8	44 40.2	0.132345	0 31	4 57
18	22 25 6.39	6 56.07	11 43 8.6	45 56.7	0.129319	0 34	5 1
19	22 32 2.46	6 54.84	10 57 11.9	47 9.6	0.125955	0 37	5 5
20	22 38 57.30	6 53.24	10 10 2.3	48 18.3	0.122232	0 40	5 10
21	22 45 50.54	+6 51.20	9 21 44.0	+49 22.1	0.118127	0 43	5 14
22	22 52 41.74	6 48.63	− 8 32 21.9	50 19.8	0.113617	0 46	5 19
23	22 59 30.37	6 45.43	7 42 2.1	51 10.5	0.108678	0 49	5 23
24	23 6 15.80	6 41.49	6 50 51.6	51 53.0	0.103285	0 51	5 28
25	23 12 57.29	6 36.68	5 58 58.6	52 26.1	0.097413	0 54	5 32
26	23 19 33.97	+6 30.88	5 6 32.5	+52 48.2	0.091039	0 57	5 37
27	23 26 4.85	6 23.97	− 4 13 44.3	52 58.1	0.084141	1 0	5 41
28	23 32 28.82	6 15.79	3 20 46.2	52 54.5	0.076699	1 2	5 46
März 1	23 38 44.61	6 6.21	2 27 51.7	52 35.8	0.068696	1 4	5 51
2	23 44 50.82	5 55.11	1 35 15.9	52 0.7	0.060121	1 6	5 55
3	23 50 45.93	+5 42.39	− 0 43 15.2	+51 8.4	0.050968	1 8	6 0
4	23 56 28.32	5 27.94	+ 0 7 53.2	49 57.8	0.041238	1 10	6 4
5	0 1 56.26	5 11.71	0 57 51.0	48 28.2	0.030939	1 12	6 9
6	0 7 7.97	4 53.67	1 46 19.2	46 39.4	0.020088	1 13	6 13
7	0 12 1.64	4 33.83	2 32 58.6	44 31.4	0.008712	1 14	6 17
8	0 16 35.47	+4 12.24	3 17 30.0	+42 4.5	9.996846	1 14	6 21
9	0 20 47.71	3 48.99	+ 3 59 34.5	39 19.2	9.984535	1 15	6 25
10	0 24 36.70	3 24.20	4 38 53.7	36 16.3	9.971835	1 15	6 28
11	0 28 0.90	2 58.02	5 15 10.0	32 56.8	9.958809	1 14	6 31
12	0 30 58.92	2 30.67	5 48 6.8	29 22.1	9.945529	1 13	6 34
13	0 33 29.59	+2 2.38	6 17 28.9	+25 33.5	9.932077	1 12	6 37
14	0 35 31.97	1 33.43	+ 6 43 2.4	21 32.6	9.918541	1 10	6 39
15	0 37 5.40	1 4.13	7 4 35.0	17 21.2	9.905015	1 7	6 41
16	0 38 9.53	0 34.83	7 21 56.2	13 1.3	9.891599	1 4	6 42
17	0 38 44.36	0 5.89	7 34 57.5	8 35.2	9.878400	1 1	6 44
18	0 38 50.25		7 43 32.7		9.865527	0 57	6 44

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	0 38 44.36	+0 5.89	+7 34 57.5	+ 8 35.2	9.878400	1 1	6 44
18	0 38 50.25	−0 22.25	7 43 32.7	+ 4 5.6	9.865527	0 57	6 44
19	0 38 28.00	0 49.16	7 47 38.3	− 0 24.4	9.853093	0 52	6 45
20	0 37 38.84	1 14.40	7 47 13.9	4 51.1	9.841210	0 48	6 45
21	0 36 24.44	−1 37.52	7 42 22.8	− 9 10.7	9.829988	0 43	6 44
22	0 34 46.92	1 58.06	+7 33 12.1	13 19.1	9.819535	0 37	6 43
23	0 32 48.86	2 15.66	7 19 53.0	17 11.6	9.809952	0 31	6 42
24	0 30 33.20	2 29.97	7 2 41.4	20 44.1	9.801329	0 25	6 41
25	0 28 3.23	2 40.76	6 41 57.3	23 52.4	9.793743	0 19	6 39
26	0 25 22.47	−2 47.85	6 18 4.9	−26 32.8	9.787257	0 12	6 37
27	0 22 34.62	2 51.21	+5 51 32.1	28 42.4	9.781914	0 5	6 34
28	0 19 43.41	2 50.89	5 22 49.7	30 19.4	9.777740	23 59	6 32
29	0 16 52.52	2 47.08	4 52 30.3	31 22.8	9.774741	23 52	6 29
30	0 14 5.44	2 40.01	4 21 7.5	31 53.0	9.772902	23 45	6 26
31	0 11 25.43	−2 30.02	3 49 14.5	−31 51.0	9.772191	23 39	6 24
April 1	0 8 55.41	2 17.50	+3 17 23.5	31 19.1	9.772560	23 32	6 21
2	0 6 37.91	2 2.85	2 46 4.4	30 20.0	9.773947	23 26	6 18
3	0 4 35.06	1 46.51	2 15 44.4	28 57.2	9.776280	23 20	6 15
4	0 2 48.55	1 28.86	1 46 47.2	27 14.2	9.779480	23 14	6 13
5	0 1 19.69	−1 10.31	1 19 33.0	−25 14.5	9.783465	23 9	6 11
6	0 0 9.38	0 51.19	+0 54 18.5	23 1.8	9.788150	23 4	6 8
7	23 59 18.19	0 31.82	0 31 16.7	20 39.2	9.793452	22 59	6 6
8	23 58 46.37	−0 12.44	+0 10 37.5	18 9.6	9.799291	22 54	6 5
9	23 58 33.93	+0 6.73	−0 7 32.1	15 35.6	9.805591	22 50	6 3
10	23 58 40.66	+0 25.52	0 23 7.7	−12 59.4	9.812281	22 46	6 2
11	23 59 6.18	0 43.80	−0 36 7.1	10 22.8	9.819298	22 43	6 1
12	23 59 49.98	1 1.47	0 46 29.9	7 47.2	9.826583	22 40	6 0
13	0 0 51.45	1 18.49	0 54 17.1	5 13.6	9.834084	22 37	5 59
14	0 2 9.94	1 34.81	0 59 30.7	2 43.1	9.841755	22 34	5 58
15	0 3 44.75	+1 50.40	1 2 13.8	− 0 16.3	9.849556	22 32	5 58
16	0 5 35.15	2 5.26	−1 2 30.1	+ 2 6.5	9.857451	22 30	5 58
17	0 7 40.41	2 19.41	1 0 23.6	4 25.0	9.865409	22 28	5 58
18	0 9 59.82	2 32.89	0 55 58.6	6 38.9	9.873405	22 26	5 59
19	0 12 32.71	2 45.71	0 49 19.7	8 48.1	9.881417	22 25	5 59
20	0 15 18.42	+2 57.91	0 40 31.6	+10 52.7	9.889424	22 24	6 0
21	0 18 16.33	3 9.51	−0 29 38.9	12 52.6	9.897411	22 23	6 1
22	0 21 25.84	3 20.57	0 16 46.3	14 47.9	9.905364	22 22	6 2
23	0 24 46.41	3 31.14	−0 1 58.4	16 38.8	9.913272	22 21	6 3
24	0 28 17.55	3 41.25	+0 14 40.4	18 25.4	9.921125	22 21	6 5
25	0 31 58.80		0 33 5.8		9.928915	22 21	6 7

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
April	24	0 28 17.55	+3 41.25	+ 0 14 40.4	+18 25.4	9.921125	22 21	6 5
	25	0 31 58.80	3 50.95	0 33 5.8	20 7.7	9.928915	22 21	6 7
	26	0 35 49.75	4 0.28	0 53 13.5	21 45.9	9.936636	22 20	6 8
	27	0 39 50.03	4 9.28	1 14 59.4	23 20.2	9.944281	22 21	6 10
	28	0 43 59.31	+4 18.01	1 38 19.6	+24 50.6	9.951847	22 21	6 12
	29	0 48 17.32	4 26.48	+ 2 3 10.2	26 17.2	9.959330	22 21	6 14
	30	0 52 43.80	4 34.76	2 29 27.4	27 40.3	9.966725	22 22	6 17
Mai	1	0 57 18.56	4 42.88	2 57 7.7	29 0.0	9.974030	22 22	6 19
	2	1 2 1.44	4 50.88	3 26 7.7	30 16.2	9.981243	22 23	6 22
	3	1 6 52.32	+4 58.79	3 56 23.9	+31 29.0	9.988360	22 24	6 24
	4	1 11 51.11	5 6.65	+ 4 27 52.9	32 38.5	9.995379	22 25	6 27
	5	1 16 57.76	5 14.51	5 0 31.4	33 44.7	0.002298	22 26	6 30
	6	1 22 12.27	5 22.38	5 34 16.1	34 47.6	0.009113	22 27	6 33
	7	1 27 34.65	5 30.30	6 9 3.7	35 47.3	0.015820	22 29	6 36
	8	1 33 4.95	+5 38.33	6 44 51.0	+36 43.5	0.022416	22 30	6 39
	9	1 38 43.28	5 46.46	+ 7 21 34.5	37 36.4	0.028897	22 32	6 42
	10	1 44 29.74	5 54.74	7 59 10.9	38 25.7	0.035258	22 34	6 46
	11	1 50 24.48	6 3.19	8 37 36.6	39 11.3	0.041493	22 36	6 49
	12	1 56 27.67	6 11.84	9 16 47.9	39 52.9	0.047595	22 38	6 53
	13	2 2 39.51	+6 20.72	9 56 40.8	+40 30.5	0.053557	22 40	6 57
	14	2 9 0.23	6 29.83	+10 37 11.3	41 3.7	0.059370	22 43	7 0
	15	2 15 30.06	6 39.20	11 18 15.0	41 32.1	0.065025	22 45	7 4
	16	2 22 9.26	6 48.82	11 59 47.1	41 55.3	0.070510	22 48	7 8
	17	2 28 58.08	6 58.71	12 41 42.4	42 12.9	0.075814	22 51	7 12
	18	2 35 56.79	+7 8.85	13 23 55.3	+42 24.4	0.080921	22 54	7 16
	19	2 43 5.64	7 19.23	+14 6 19.7	42 29.1	0.085817	22 57	7 20
	20	2 50 24.87	7 29.82	14 48 48.8	42 26.4	0.090486	23 0	7 25
	21	2 57 54.69	7 40.57	15 31 15.2	42 15.7	0.094908	23 4	7 29
	22	3 5 35.26	7 51.43	16 13 30.9	41 56.1	0.099064	23 8	7 33
	23	3 13 26.69	+8 2.31	16 55 27.0	+41 27.0	0.102933	23 12	7 38
	24	3 21 29.00	8 13.13	+17 36 54.0	40 47.7	0.106492	23 16	7 42
	25	3 29 42.13	8 23.76	18 17 41.7	39 57.3	0.109720	23 20	7 46
	26	3 38 5.89	8 34.08	18 57 39.0	38 55.3	0.112593	23 24	7 51
	27	3 46 39.97	8 43.96	19 36 34.3	37 41.3	0.115088	23 29	7 55
	28	3 55 23.93	+8 53.22	20 14 15.6	+36 15.0	0.117183	23 34	7 59
	29	4 4 17.15	9 1.70	+20 50 30.6	34 36.3	0.118857	23 39	8 4
	30	4 13 18.85	9 9.24	21 25 6.9	32 45.4	0.120093	23 44	8 8
	31	4 22 28.09	9 15.67	21 57 52.3	30 42.9	0.120874	23 49	8 12
Juni	1	4 31 43.76	9 20.88	22 28 35.2	28 29.6	0.121189	23 54	8 15
	2	4 41 4.64		22 57 4.8		0.121031	0 0	8 19

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ' "	Diff. ' "	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Juni	1	4 31 43.76	+9 20.88	+22 28 35.2	+28 29.6	0.121189	23 54	8 15
	2	4 41 4.64	9 24.73	22 57 4.8	26 6.6	0.121031	0 0	8 19
	3	4 50 29.37	9 27.13	23 23 11.4	23 35.2	0.120395	0 5	8 22
	4	4 59 56.50	9 28.04	23 46 46.6	20 57.1	0.119284	0 11	8 25
	5	5 9 24.54	+9 27.45	24 7 43.7	+18 14.0	0.117704	0 16	8 28
	6	5 18 51.99	9 25.36	+24 25 57.7	15 27.8	0.115665	0 22	8 30
	7	5 28 17.35	9 21.85	24 41 25.5	12 40.1	0.113181	0 27	8 32
	8	5 37 39.20	9 16.99	24 54 5.6	9 52.8	0.110270	0 33	8 34
	9	5 46 56.19	9 10.89	25 3 58.4	7 7.3	0.106953	0 38	8 35
	10	5 56 7.08	+9 3.65	25 11 5.7	+ 4 25.0	0.103251	0 43	8 36
	11	6 5 10.73	8 55.40	+25 15 30.7	+ 1 47.0	0.099187	0 48	8 37
	12	6 14 6.13	8 46.29	25 17 17.7	− 0 45.4	0.094786	0 53	8 37
	13	6 22 52.42	8 36.42	25 16 32.3	3 11.6	0.090070	0 58	8 37
	14	6 31 28.84	8 25.92	25 13 20.7	5 31.2	0.085063	1 3	8 37
	15	6 39 54.76	+8 14.89	25 7 49.5	− 7 43.7	0.079786	1 7	8 36
	16	6 48 9.65	8 3.43	+25 0 5.8	9 48.7	0.074262	1 12	8 35
	17	6 56 13.08	7 51.63	24 50 17.1	11 46.2	0.068509	1 16	8 34
	18	7 4 4.71	7 39.55	24 38 30.9	13 36.1	0.062546	1 20	8 32
	19	7 11 44.26	7 27.28	24 24 54.8	15 18.4	0.056389	1 23	8 30
	20	7 19 11.54	+7 14.84	24 9 36.4	−16 53.2	0.050054	1 27	8 28
	21	7 26 26.38	7 2.29	+23 52 43.2	18 20.7	0.043555	1 30	8 26
	22	7 33 28.67	6 49.65	23 34 22.5	19 41.0	0.036903	1 33	8 24
	23	7 40 18.32	6 36.95	23 14 41.5	20 54.2	0.030111	1 36	8 21
	24	7 46 55.27	6 24.22	22 53 47.3	22 0.5	0.023188	1 39	8 18
	25	7 53 19.49	+6 11.44	22 31 46.8	−23 0.1	0.016143	1 41	8 16
	26	7 59 30.93	5 58.62	+22 8 46.7	23 53.2	0.008984	1 44	8 13
	27	8 5 29.55	5 45.77	21 44 53.5	24 39.9	0.001720	1 46	8 10
	28	8 11 15.32	5 32.88	21 20 13.6	25 20.3	9.994356	1 47	8 7
	29	8 16 48.20	5 19.93	20 54 53.3	25 54.5	9.986899	1 49	8 4
	30	8 22 8.13	+5 6.91	20 28 58.8	−26 22.7	9.979355	1 50	8 1
Juli	1	8 27 15.04	4 53.80	+20 2 36.1	26 45.0	9.971729	1 52	7 58
	2	8 32 8.84	4 40.58	19 35 51.1	27 1.3	9.964027	1 53	7 55
	3	8 36 49.42	4 27.22	19 8 49.8	27 11.8	9.956254	1 53	7 52
	4	8 41 16.64	4 13.70	18 41 38.0	27 16.4	9.948415	1 54	7 49
	5	8 45 30.34	+3 59.98	18 14 21.6	−27 14.9	9.940517	1 54	7 46
	6	8 49 30.32	3 46.05	+17 47 6.7	27 7.5	9.932567	1 54	7 43
	7	8 53 16.37	3 31.87	17 19 59.2	26 54.1	9.924570	1 54	7 40
	8	8 56 48.24	3 17.41	16 53 5.1	26 34.6	9.916536	1 54	7 37
	9	9 0 5.65	3 2.64	16 26 30.5	26 8.8	9.908473	1 53	7 35
	10	9 3 8.29		16 0 21.7		9.900393	1 52	7 32

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juli	9	9 0 5.65	+3 2.64	+16 26 30.5	−26 8.8	9.908473	1 53	7 35
	10	9 3 8.29	2 47.54	16 0 21.7	25 36.5	9.900393	1 52	7 32
	11	9 5 55.83	2 32.09	15 34 45.2	24 57.8	9.892306	1 51	7 29
	12	9 8 27.92	2 16.25	15 9 47.4	24 12.5	9.884227	1 50	7 27
	13	9 10 44.17	+2 0.01	14 45 34.9	−23 20.2	9.876172	1 48	7 24
	14	9 12 44.18	1 43.37	+14 22 14.7	22 21.0	9.868159	1 46	7 22
	15	9 14 27.55	1 26.33	13 59 53.7	21 14.6	9.860209	1 44	7 20
	16	9 15 53.88	1 8.90	13 38 39.1	20 0.9	9.852346	1 41	7 18
	17	9 17 2.78	0 51.09	13 18 38.2	18 39.9	9.844598	1 38	7 16
	18	9 17 53.87	+0 32.93	12 59 58.3	−17 11.4	9.836996	1 35	7 14
	19	9 18 26.80	+0 14.49	+12 42 46.9	15 35.4	9.829574	1 32	7 12
	20	9 18 41.29	−0 4.15	12 27 11.5	13 52.2	9.822372	1 28	7 11
	21	9 18 37.14	0 22.88	12 13 19.3	12 1.9	9.815433	1 24	7 9
	22	9 18 14.26	0 41.60	12 1 17.4	10 4.9	9.808805	1 20	7 8
	23	9 17 32.66	−1 0.12	11 51 12.5	−8 1.7	9.802542	1 15	7 7
	24	9 16 32.54	1 18.25	+11 43 10.8	5 53.0	9.796699	1 10	7 6
	25	9 15 14.29	1 35.77	11 37 17.8	3 39.9	9.791337	1 5	7 6
	26	9 13 38.52	1 52.43	11 33 37.9	−1 23.7	9.786520	0 59	7 6
	27	9 11 46.09	2 7.93	11 32 14.2	+0 54.4	9.782314	0 54	7 5
	28	9 9 38.16	−2 21.96	11 33 8.6	+3 12.9	9.778785	0 48	7 6
	29	9 7 16.20	2 34.20	+11 36 21.5	5 29.7	9.776000	0 41	7 6
	30	9 4 42.00	2 44.34	11 41 51.2	7 42.8	9.774023	0 35	7 6
	31	9 1 57.66	2 52.08	11 49 34.0	9 50.0	9.772914	0 28	7 7
Aug.	1	8 59 5.58	2 57.10	11 59 24.0	11 49.3	9.772726	0 21	7 8
	2	8 56 8.48	−2 59.17	12 11 13.3	+13 38.7	9.773504	0 14	7 9
	3	8 53 9.31	2 58.11	+12 24 52.0	15 16.2	9.775283	0 7	7 10
	4	8 50 11.20	2 53.80	12 40 8.2	16 40.2	9.778085	0 1	7 12
	5	8 47 17.40	2 46.17	12 56 48.4	17 49.2	9.781918	23 54	7 14
	6	8 44 31.23	2 35.26	13 14 37.6	18 42.4	9.786779	23 47	7 15
	7	8 41 55.97	−2 21.17	13 33 20.0	+19 19.0	9.792648	23 40	7 17
	8	8 39 34.80	2 4.07	+13 52 39.0	19 38.6	9.799492	23 34	7 19
	9	8 37 30.73	1 44.21	14 12 17.6	19 41.2	9.807266	23 28	7 21
	10	8 35 46.52	1 21.86	14 31 58.8	19 27.2	9.815912	23 22	7 23
	11	8 34 24.66	0 57.34	14 51 26.0	18 57.0	9.825363	23 17	7 25
	12	8 33 27.32	−0 30.99	15 10 23.0	+18 11.2	9.835544	23 12	7 27
	13	8 32 56.33	−0 3.15	+15 28 34.2	17 10.4	9.846375	23 8	7 29
	14	8 32 53.18	+0 25.81	15 45 44.6	15 55.4	9.857772	23 4	7 30
	15	8 33 18.99	0 55.55	16 1 40.0	14 26.8	9.869648	23 0	7 32
	16	8 34 14.54	1 25.76	16 16 6.8	12 45.3	9.881916	22 57	7 34
	17	8 35 40.30		16 28 52.1		9.894487	22 55	7 35

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	8 34 14.54	+1 25.76	+16 16 6.8	+12 45.3	9.881916	22 57	7 34
17	8 35 40.30	1 56.14	16 28 52.1	10 51.7	9.894487	22 55	7 35
18	8 37 36.44	2 26.37	16 39 43.8	8 46.6	9.907276	22 53	7 36
19	8 40 2.81	2 56.17	16 48 30.4	6 30.7	9.920200	22 51	7 37
20	8 42 58.98	+3 25.28	16 55 1.1	+ 4 4.9	9.933176	22 50	7 38
21	8 46 24.26	3 53.46	+16 59 6.0	+ 1 29.9	9.946126	22 50	7 38
22	8 50 17.72	4 20.46	17 0 35.9	− 1 13.2	9.958976	22 50	7 38
23	8 54 38.18	4 46.06	16 59 22.7	4 3.1	9.971654	22 50	7 38
24	8 59 24.24	5 10.03	16 55 19.6	6 58.5	9.984094	22 51	7 38
25	9 4 34.27	+5 32.20	16 48 21.1	− 9 57.8	9.996233	22 52	7 37
26	9 10 6.47	5 52.42	+16 38 23.3	12 59.1	0.008015	22 54	7 36
27	9 15 58.89	6 10.54	16 25 24.2	16 0.8	0.019389	22 56	7 35
28	9 22 9.43	6 26.47	16 9 23.4	19 0.6	0.030310	22 58	7 33
29	9 28 35.90	6 40.19	15 50 22.8	21 56.5	0.040742	23 0	7 31
30	9 35 16.09	+6 51.68	15 28 26.3	−24 46.9	0.050654	23 3	7 29
31	9 42 7.77	7 1.01	+15 3 39.4	27 29.8	0.060024	23 6	7 26
Sept. 1	9 49 8.78	7 8.26	14 36 9.6	30 3.8	0.068839	23 9	7 23
2	9 56 17.04	7 13.55	14 6 5.8	32 27.8	0.077090	23 12	7 20
3	10 3 30.59	7 17.07	13 33 38.0	34 40.8	0.084778	23 16	7 17
4	10 10 47.66	+7 18.98	12 58 57.2	−36 42.1	0.091909	23 19	7 14
5	10 18 6.64	7 19.48	+12 22 15.1	38 31.5	0.098493	23 22	7 10
6	10 25 26.12	7 18.78	11 43 43.6	40 9.1	0.104547	23 26	7 7
7	10 32 44.90	7 17.05	11 3 34.5	41 35.3	0.110089	23 29	7 3
8	10 40 1.95	7 14.49	10 21 59.2	42 50.3	0.115141	23 33	6 59
9	10 47 16.44	+7 11.26	9 39 8.9	−43 54.7	0.119726	23 36	6 55
10	10 54 27.70	7 7.51	+ 8 55 14.2	44 49.1	0.123867	23 39	6 51
11	11 1 35.21	7 3.38	8 10 25.1	45 34.3	0.127589	23 42	6 47
12	11 8 38.59	6 58.99	7 24 50.8	46 11.0	0.130915	23 45	6 43
13	11 15 37.58	6 54.42	6 38 39.8	46 40.0	0.133868	23 48	6 39
14	11 22 32.00	+6 49.77	5 51 59.8	−47 1.9	0.136471	23 51	6 34
15	11 29 21.77	6 45.11	+ 5 4 57.9	47 17.4	0.138745	23 54	6 30
16	11 36 6.88	6 40.47	4 17 40.5	47 27.2	0.140709	23 57	6 26
17	11 42 47.35	6 35.92	3 30 13.3	47 31.7	0.142381	0 0	6 22
18	11 49 23.27	6 31.50	2 42 41.6	47 31.6	0.143779	0 2	6 18
19	11 55 54.77	+6 27.22	1 55 10.0	−47 27.2	0.144918	0 5	6 14
20	12 2 21.99	6 23.09	+ 1 7 42.8	47 19.0	0.145811	0 7	6 10
21	12 8 45.08	6 19.15	+ 0 20 23.8	47 7.5	0.146471	0 10	6 5
22	12 15 4.23	6 15.40	− 0 26 43.7	46 52.9	0.146911	0 12	6 1
23	12 21 19.63	6 11.84	1 13 36.6	46 35.6	0.147140	0 15	5 57
24	12 27 31.47		2 0 12.2		0.147167	0 17	5 53

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	12 21 19.63	+6 11.84	−1 13 36.6	−46 35.6	0.147140	0 15	5 57
24	12 27 31.47	6 8.47	2 0 12.2	46 15.6	0.147167	0 17	5 53
25	12 33 39.94	6 5.30	2 46 27.8	45 53.3	0.147000	0 19	5 49
26	12 39 45.24	6 2.33	3 32 21.1	45 29.0	0.146647	0 21	5 45
27	12 45 47.57	+5 59.54	4 17 50.1	−45 2.7	0.146113	0 23	5 41
28	12 51 47.11	5 56.93	−5 2 52.8	44 34.6	0.145403	0 25	5 37
29	12 57 44.04	5 54.50	5 47 27.4	44 4.8	0.144523	0 27	5 33
30	13 3 38.54	5 52.23	6 31 32.2	43 33.4	0.143475	0 29	5 29
Okt. 1	13 9 30.77	5 50.12	7 15 5.6	43 0.5	0.142262	0 31	5 26
2	13 15 20.89	+5 48.17	7 58 6.1	−42 26.1	0.140887	0 33	5 22
3	13 21 9.06	5 46.35	−8 40 32.2	41 50.3	0.139352	0 35	5 18
4	13 26 55.41	5 44.66	9 22 22.5	41 13.3	0.137657	0 37	5 14
5	13 32 40.07	5 43.08	10 3 35.8	40 35.0	0.135804	0 39	5 10
6	13 38 23.15	5 41.61	10 44 10.8	39 55.4	0.133791	0 40	5 7
7	13 44 4.76	+5 40.23	11 24 6.2	−39 14.6	0.131619	0 42	5 3
8	13 49 44.99	5 38.94	−12 3 20.8	38 32.5	0.129286	0 44	4 59
9	13 55 23.93	5 37.71	12 41 53.3	37 49.2	0.126790	0 46	4 56
10	14 1 1.64	5 36.53	13 19 42.5	37 4.5	0.124130	0 47	4 52
11	14 6 38.17	5 35.37	13 56 47.0	36 18.6	0.121303	0 49	4 48
12	14 12 13.54	+5 34.23	14 33 5.6	−35 31.4	0.118305	0 51	4 45
13	14 17 47.77	5 33.08	−15 8 37.0	34 42.9	0.115134	0 52	4 41
14	14 23 20.85	5 31.90	15 43 19.9	33 52.9	0.111784	0 54	4 38
15	14 28 52.75	5 30.67	16 17 12.8	33 1.5	0.108251	0 56	4 35
16	14 34 23.42	5 29.35	16 50 14.3	32 8.7	0.104530	0 57	4 31
17	14 39 52.77	+5 27.92	17 22 23.0	−31 14.3	0.100616	0 58	4 28
18	14 45 20.69	5 26.35	−17 53 37.3	30 18.2	0.096502	1 0	4 25
19	14 50 47.04	5 24.59	18 23 55.5	29 20.5	0.092181	1 2	4 21
20	14 56 11.63	5 22.61	18 53 16.0	28 21.0	0.087646	1 3	4 18
21	15 1 34.24	5 20.36	19 21 37.0	27 19.5	0.082889	1 4	4 15
22	15 6 54.60	+5 17.79	19 48 56.5	−26 16.1	0.077902	1 6	4 12
23	15 12 12.39	5 14.85	−20 15 12.6	25 10.6	0.072677	1 7	4 9
24	15 17 27.24	5 11.45	20 40 23.2	24 2.9	0.067204	1 8	4 7
25	15 22 38.69	5 7.53	21 4 26.1	22 52.8	0.061473	1 10	4 4
26	15 27 46.22	5 3.02	21 27 18.9	21 40.3	0.055474	1 11	4 1
27	15 32 49.24	+4 57.83	21 48 59.2	−20 25.0	0.049197	1 12	3 59
28	15 37 47.07	4 51.84	−22 9 24.2	19 6.9	0.042632	1 13	3 56
29	15 42 38.91	4 44.94	22 28 31.1	17 45.8	0.035768	1 14	3 54
30	15 47 23.85	4 37.01	22 46 16.9	16 21.3	0.028595	1 15	3 52
31	15 52 0.86	4 27.91	23 2 38.2	14 53.3	0.021103	1 15	3 50
Nov. 1	15 56 28.77		23 17 31.5		0.013284	1 16	3 48

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Okt. 31	15 52 0.86	+4 27.91	−23 2 38.2	−14 53.3	0.021103	1 15	3 50
Nov. 1	15 56 28.77	4 17.46	23 17 31.5	13 21.5	0.013284	1 16	3 48
2	16 0 46.23	4 5.51	23 30 53.0	11 45.5	0.005131	1 16	3 47
3	16 4 51.74	3 51.88	23 42 38.5	10 5.0	9.996639	1 16	3 45
4	16 8 43.62	+3 36.36	23 52 43.5	− 8 19.3	9.987804	1 16	3 44
5	16 12 19.98	3 18.73	−24 1 2.8	6 28.1	9.978628	1 16	3 43
6	16 15 38.71	2 58.79	24 7 30.9	4 30.8	9.969119	1 15	3 42
7	16 18 37.50	2 36.30	24 12 1.7	2 26.7	9.959290	1 14	3 42
8	16 21 13.80	2 11.08	24 14 28.4	− 0 14.9	9.949163	1 13	3 41
9	16 23 24.88	+1 42.98	24 14 43.3	+ 2 5.4	9.938770	1 11	3 41
10	16 25 7.86	1 11.85	−24 12 37.9	4 34.9	9.928159	1 9	3 41
11	16 26 19.71	0 37.67	24 8 3.0	7 14.2	9.917395	1 6	3 42
12	16 26 57.38	+0 0.63	24 0 48.8	10 4.0	9.906561	1 3	3 43
13	16 26 58.01	−0 39.00	23 50 44.8	13 4.2	9.895765	0 59	3 44
14	16 26 19.01	− 1 20.67	23 37 40.6	+16 14.0	9.885145	0 55	3 46
15	16 24 58.34	2 3.48	−23 21 26.6	19 31.5	9.874864	0 49	3 48
16	16 22 54.86	2 46.23	23 1 55.1	22 53.0	9.865118	0 43	3 50
17	16 20 8.63	3 27.38	22 39 2.1	26 12.8	9.856129	0 37	3 53
18	16 16 41.25	4 5.09	22 12 49.3	29 22.8	9.848141	0 29	3 56
19	16 12 36.16	−4 37.32	21 43 26.5	+32 12.9	9.841407	0 21	3 59
20	16 7 58.84	5 2.08	−21 11 13.6	34 30.7	9.836178	0 13	4 3
21	16 2 56.76	5 17.66	20 36 42.9	36 4.2	9.832674	0 4	4 7
22	15 57 39.10	5 22.83	20 0 38.7	36 42.4	9.831070	23 54	4 11
23	15 52 16.27	5 17.13	19 23 56.3	36 18.2	9.831474	23 45	4 15
24	15 46 59.14	−5 0.88	18 47 38.1	+34 48.8	9.833912	23 36	4 19
25	15 41 58.26	4 35.18	−18 12 49.3	32 17.3	9.838323	23 27	4 23
26	15 37 23.08	4 1.73	17 40 32.0	28 52.3	9.844568	23 18	4 26
27	15 33 21.35	3 22.53	17 11 39.7	24 45.6	9.852441	23 10	4 29
28	15 29 58.82	2 39.67	16 46 54.1	20 11.2	9.861692	23 3	4 32
29	15 27 19.15	−1 55.10	16 26 42.9	+15 23.2	9.872049	22 56	4 34
30	15 25 24.05	1 10.46	−16 11 19.7	10 34.1	9.883239	22 50	4 35
Dez. 1	15 24 13.59	−0 27.03	16 0 45.6	5 54.2	9.895006	22 45	4 36
2	15 23 46.56	+0 14.24	15 54 51.4	+ 1 31.2	9.907118	22 41	4 37
3	15 24 0.80	0 52.76	15 53 20.2	− 2 29.9	9.919376	22 37	4 37
4	15 24 53.56	+1 28.25	15 55 50.1	− 6 6.2	9.931616	22 34	4 37
5	15 26 21.81	2 0.57	−16 1 56.3	9 16.4	9.943707	22 32	4 36
6	15 28 22.38	2 29.77	16 11 12.7	12 0.9	9.955547	22 30	4 35
7	15 30 52.15	2 56.00	16 23 13.6	14 20.4	9.967062	22 28	4 34
8	15 33 48.15	3 19.47	16 37 34.0	16 16.6	9.978197	22 27	4 32
9	15 37 7.62		16 53 50.6		9.988917	22 27	4 31

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	15 33 48.15	+3 19.47	−16 37 34.0	−16 16.6	9.978197	22 27	4 32
9	15 37 7.62	3 40.40	16 53 50.6	17 51.4	9.988917	22 27	4 31
10	15 40 48.02	3 59.06	17 11 42.0	19 6.7	9.999200	22 27	4 29
11	15 44 47.08	4 15.69	17 30 48.7	20 4.5	0.009036	22 27	4 27
12	15 49 2.77	+4 30.52	17 50 53.2	−20 46.8	0.018423	22 27	4 25
13	15 53 33.29	4 43.77	−18 11 40.0	21 15.3	0.027365	22 27	4 23
14	15 58 17.06	4 55.63	18 32 55.3	21 31.4	0.035871	22 28	4 20
15	16 3 12.69	5 6.26	18 54 26.7	21 36.7	0.043952	22 29	4 18
16	16 8 18.95	5 15.82	19 16 3.4	21 32.6	0.051622	22 30	4 16
17	16 13 34.77	+5 24.47	19 37 36.0	−21 20.0	0.058897	22 32	4 14
18	16 18 59.24	5 32.31	−19 58 56.0	20 59.9	0.065792	22 33	4 11
19	16 24 31.55	5 39.43	20 19 55.9	20 33.3	0.072323	22 35	4 9
20	16 30 10.98	5 45.94	20 40 29.2	20 0.9	0.078505	22 36	4 7
21	16 35 56.92	5 51.91	21 0 30.1	19 23.3	0.084354	22 38	4 4
22	16 41 48.83	+5 57.40	21 19 53.4	−18 41.0	0.089885	22 40	4 2
23	16 47 46.23	6 2.46	−21 38 34.4	17 54.7	0.095113	22 42	4 0
24	16 53 48.69	6 7.15	21 56 29.1	17 4.7	0.100051	22 44	3 58
25	16 59 55.84	6 11.52	22 13 33.8	16 11.4	0.104711	22 47	3 56
26	17 6 7.36	6 15.59	22 29 45.2	15 15.0	0.109105	22 49	3 54
27	17 12 22.95	+6 19.38	22 45 0.2	−14 15.9	0.113245	22 51	3 52
28	17 18 42.33	6 22.93	−22 59 16.1	13 14.2	0.117141	22 53	3 51
29	17 25 5.26	6 26.27	23 12 30.3	12 10.3	0.120804	22 56	3 49
30	17 31 31.53	6 29.42	23 24 40.6	11 4.3	0.124242	22 58	3 47
31	17 38 0.95	6 32.37	23 35 44.9	9 56.4	0.127463	23 1	3 46
32	17 44 33.32	+6 35.15	23 45 41.3	−8 46.7	0.130475	23 4	3 45
33	17 51 8.47		−23 54 28.0		0.133286	23 6	3 44

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 0	21 40 13.34	+4 33.76	−15 50 21.5	+25 12.4	0.002792	3 2	4 37
1	21 44 47.10	4 32.13	15 25 9.1	25 34.7	9.999847	3 3	4 40
2	21 49 19.23	4 30.51	14 59 34.4	25 56.4	9.996874	3 3	4 42
3	21 53 49.74	4 28.89	14 33 38.0	26 17.1	9.993871	3 4	4 45
4	21 58 18.63	+4 27.30	14 7 20.9	+26 37.1	9.990837	3 5	4 47
5	22 2 45.93	4 25.70	−13 40 43.8	26 56.3	9.987773	3 5	4 50
6	22 7 11.63	4 24.12	13 13 47.5	27 14.6	9.984678	3 6	4 53
7	22 11 35.75	4 22.55	12 46 32.9	27 32.2	9.981551	3 6	4 55
8	22 15 58.30	4 20.98	12 19 0.7	27 49.0	9.978391	3 6	4 58
9	22 20 19.28	+4 19.43	11 51 11.7	+28 4.9	9.975199	3 7	5 0
10	22 24 38.71	4 17.90	−11 23 6.8	28 20.0	9.971974	3 7	5 3
11	22 28 56.61	4 16.38	10 54 46.8	28 34.4	9.968715	3 8	5 6
12	22 33 12.99	4 14.87	10 26 12.4	28 47.9	9.965422	3 8	5 8
13	22 37 27.86	4 13.37	9 57 24.5	29 0.5	9.962094	3 8	5 11
14	22 41 41.23	+4 11.88	9 28 24.0	+29 12.5	9.958731	3 8	5 14
15	22 45 53.11	4 10.41	− 8 59 11.5	29 23.6	9.955332	3 9	5 16
16	22 50 3.52	4 8.95	8 29 47.9	29 33.9	9.951896	3 9	5 19
17	22 54 12.47	4 7.50	8 0 14.0	29 43.3	9.948424	3 9	5 21
18	22 58 19.97	4 6.07	7 30 30.7	29 52.1	9.944915	3 9	5 24
19	23 2 26.04	+4 4.64	7 0 38.6	+30 0.0	9.941369	3 9	5 27
20	23 6 30.68	4 3.23	− 6 30 38.6	30 7.1	9.937785	3 10	5 29
21	23 10 33.91	4 1.83	6 0 31.5	30 13.6	9.934162	3 10	5 32
22	23 14 35.74	4 0.46	5 30 17.9	30 19.4	9.930501	3 10	5 35
23	23 18 36.20	3 59.10	4 59 58.5	30 24.3	9.926801	3 10	5 38
24	23 22 35.30	+3 57.76	4 29 34.2	+30 28.5	9.923061	3 10	5 40
25	23 26 33.06	3 56.43	− 3 59 5.7	30 32.1	9.919281	3 10	5 43
26	23 30 29.49	3 55.11	3 28 33.6	30 35.0	9.915461	3 10	5 46
27	23 34 24.60	3 53.81	2 57 58.6	30 37.2	9.911600	3 10	5 48
28	23 38 18.41	3 52.51	2 27 21.4	30 38.6	9.907697	3 10	5 51
29	23 42 10.92	+3 51.23	1 56 42.8	+30 39.4	9.903751	3 10	5 54
30	23 46 2.15	3 49.96	− 1 26 3.4	30 39.5	9.899762	3 10	5 56
31	23 49 52.11	3 48.69	0 55 23.9	30 38.9	9.895729	3 10	5 59
Febr. 1	23 53 40.80	3 47.42	− 0 24 45.0	30 37.5	9.891651	3 9	6 1
2	23 57 28.22	3 46.14	+ 0 5 52.5	30 35.5	9.887527	3 9	6 4
3	0 1 14.36	+3 44.87	0 36 28.0	+30 32.7	9.883357	3 9	6 7
4	0 4 59.23	3 43.59	+ 1 7 0.7	30 29.2	9.879140	3 9	6 9
5	0 8 42.82	3 42.31	1 37 29.9	30 25.1	9.874875	3 9	6 12
6	0 12 25.13	3 41.01	2 7 55.0	30 20.2	9.870561	3 9	6 15
7	0 16 6.14	3 39.70	2 38 15.2	30 14.5	9.866197	3 8	6 17
8	0 19 45.84		3 8 29.7		9.861783	3 8	6 20

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 7	0 16 6.14	+3 39.70	+ 2 38 15.2	+30 14.5	9.866197	3 8	6 17
8	0 19 45.84	3 38.37	3 8 29.7	30 8.1	9.861783	3 8	6 20
9	0 23 24.21	3 37.02	3 38 37.8	30 0.9	9.857317	3 8	6 23
10	0 27 1.23	3 35.64	4 8 38.7	29 53.2	9.852800	3 7	6 25
11	0 30 36.87	+3 34.24	4 38 31.9	+29 44.6	9.848230	3 7	6 28
12	0 34 11.11	3 32.82	+ 5 8 16.5	29 35.2	9.843606	3 7	6 31
13	0 37 43.93	3 31.35	5 37 51.7	29 25.2	9.838927	3 6	6 33
14	0 41 15.28	3 29.85	6 7 16.9	29 14.4	9.834194	3 6	6 36
15	0 44 45.13	3 28.31	6 36 31.3	29 2.9	9.829405	3 5	6 38
16	0 48 13.44	+3 26.73	7 5 34.2	+28 50.6	9.824560	3 5	6 41
17	0 51 40.17	3 25.10	+ 7 34 24.8	28 37.6	9.819658	3 4	6 44
18	0 55 5.27	3 23.42	8 3 2.4	28 23.9	9.814699	3 4	6 46
19	0 58 28.69	3 21.69	8 31 26.3	28 9.5	9.809682	3 3	6 49
20	1 1 50.38	3 19.90	8 59 35.8	27 54.4	9.804607	3 3	6 51
21	1 5 10.28	+3 18.06	9 27 30.2	+27 38.6	9.799474	3 2	6 54
22	1 8 28.34	3 16.17	+ 9 55 8.8	27 22.3	9.794282	3 1	6 56
23	1 11 44.51	3 14.20	10 22 31.1	27 5.2	9.789030	3 1	6 59
24	1 14 58.71	3 12.17	10 49 36.3	26 47.5	9.783719	3 0	7 1
25	1 18 10.88	3 10.06	11 16 23.8	26 29.0	9.778347	2 59	7 4
26	1 21 20.94	+3 7.87	11 42 52.8	+26 9.9	9.772915	2 59	7 6
27	1 24 28.81	3 5.60	+12 9 2.7	25 50.1	9.767422	2 58	7 9
28	1 27 34.41	3 3.24	12 34 52.8	25 29.6	9.761867	2 57	7 11
März 1	1 30 37.65	3 0.77	13 0 22.4	25 8.4	9.756249	2 56	7 14
2	1 33 38.42	2 58.19	13 25 30.8	24 46.4	9.750569	2 55	7 16
3	1 36 36.61	+2 55.50	13 50 17.2	+24 23.7	9.744826	2 54	7 19
4	1 39 32.11	2 52.68	+14 14 40.9	24 0.2	9.739019	2 53	7 21
5	1 42 24.79	2 49.72	14 38 41.1	23 35.9	9.733149	2 52	7 24
6	1 45 14.51	2 46.62	15 2 17.0	23 10.7	9.727215	2 51	7 26
7	1 48 1.13	2 43.38	15 25 27.7	22 44.7	9.721217	2 50	7 29
8	1 50 44.51	+2 39.97	15 48 12.4	+22 17.8	9.715156	2 49	7 31
9	1 53 24.48	2 36.39	+16 10 30.2	21 50.0	9.709031	2 47	7 33
10	1 56 0.87	2 32.64	16 32 20.2	21 21.3	9.702843	2 46	7 35
11	1 58 33.51	2 28.71	16 53 41.5	20 51.6	9.696593	2 45	7 37
12	2 1 2.22	2 24.57	17 14 33.1	20 20.8	9.690282	2 43	7 40
13	2 3 26.79	+2 20.22	17 34 53.9	+19 48.9	9.683911	2 42	7 42
14	2 5 47.01	2 15.66	+17 54 42.8	19 16.0	9.677480	2 40	7 44
15	2 8 2.67	2 10.89	18 13 58.8	18 42.0	9.670993	2 38	7 46
16	2 10 13.56	2 5.88	18 32 40.8	18 6.8	9.664451	2 37	7 48
17	2 12 19.44	2 0.63	18 50 47.6	17 30.2	9.657856	2 35	7 50
18	2 14 20.07		19 8 17.8		9.651212	2 33	7 52

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	2 12 19.44	+2 0.63	+18 50 47.6	+17 30.2	9.657856	2 35	7 50
18	2 14 20.07	1 55.14	19 8 17.8	16 52.4	9.651212	2 33	7 52
19	2 16 15.21	1 49.39	19 25 10.2	16 13.3	9.644521	2 31	7 54
20	2 18 4.60	1 43.39	19 41 23.5	15 32.8	9.637789	2 29	7 56
21	2 19 47.99	+1 37.15	19 56 56.3	+14 50.8	9.631019	2 26	7 57
22	2 21 25.14	1 30.66	+20 11 47.1	14 7.4	9.624216	2 24	7 59
23	2 22 55.80	1 23.91	20 25 54.5	13 22.5	9.617386	2 22	8 1
24	2 24 19.71	1 16.91	20 39 17.0	12 35.8	9.610534	2 19	8 2
25	2 25 36.62	1 9.67	20 51 52.8	11 47.4	9.603667	2 16	8 4
26	2 26 46.29	+1 2.17	21 3 40.2	+10 57.1	9.596793	2 14	8 5
27	2 27 48.46	0 54.42	+21 14 37.3	10 5.2	9.589919	2 11	8 6
28	2 28 42.88	0 46.42	21 24 42.5	9 11.2	9.583053	2 8	8 8
29	2 29 29.30	0 38.20	21 33 53.7	8 15.0	9.576204	2 5	8 9
30	2 30 7.50	0 29.77	21 42 8.7	7 16.7	9.569383	2 1	8 10
31	2 30 37.27	+0 21.12	21 49 25.4	+ 6 16.1	9.562600	1 58	8 11
April 1	2 30 58.39	0 12.28	+21 55 41.5	5 13.2	9.555867	1 54	8 11
2	2 31 10.67	+0 3.27	22 0 54.7	4 7.8	9.549198	1 50	8 12
3	2 31 13.94	−0 5.86	22 5 2.5	3 0.1	9.542606	1 47	8 12
4	2 31 8.08	0 15.09	22 8 2.6	1 49.9	9.536106	1 43	8 13
5	2 30 52.99	−0 24.40	22 9 52.5	+ 0 37.3	9.529714	1 38	8 13
6	2 30 28.59	0 33.73	+22 10 29.8	− 0 37.7	9.523447	1 34	8 13
7	2 29 54.86	0 43.02	22 9 52.1	1 55.0	9.517324	1 29	8 13
8	2 29 11.84	0 52.25	22 7 57.1	3 14.3	9.511363	1 25	8 13
9	2 28 19.59	1 1.33	22 4 42.8	4 35.7	9.505585	1 20	8 12
10	2 27 18.26	−1 10.20	22 0 7.1	− 5 58.7	9.500011	1 15	8 12
11	2 26 8.06	1 18.80	+21 54 8.4	7 23.1	9.494663	1 10	8 11
12	2 24 49.26	1 27.06	21 46 45.3	8 48.3	9.489563	1 4	8 10
13	2 23 22.20	1 34.91	21 37 57.0	10 13.9	9.484733	0 59	8 9
14	2 21 47.29	1 42.27	21 27 43.1	11 39.5	9.480197	0 54	8 8
15	2 20 5.02	−1 49.03	21 16 3.6	−13 4.3	9.475979	0 48	8 7
16	2 18 15.99	1 55.13	+21 2 59.3	14 27.6	9.472101	0 42	8 5
17	2 16 20.86	2 0.51	20 48 31.7	15 48.6	9.468585	0 36	8 3
18	2 14 20.35	2 5.10	20 32 43.1	17 6.7	9.465452	0 31	8 1
19	2 12 15.25	2 8.84	20 15 36.4	18 20.9	9.462721	0 24	8 0
20	2 10 6.41	−2 11.68	19 57 15.5	−19 30.3	9.460411	0 18	7 57
21	2 7 54.73	2 13.57	+19 37 45.2	20 34.3	9.458536	0 12	7 55
22	2 5 41.16	2 14.50	19 17 10.9	21 32.0	9.457109	0 6	7 53
23	2 3 26.66	2 14.50	18 55 38.9	22 22.8	9.456139	0 0	7 51
24	2 1 12.16	2 13.55	18 33 16.1	23 6.5	9.455633	23 54	7 48
25	1 58 58.61		18 10 9.6		9.455596	23 48	7 46

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
April 24	2 1 12.16	−2 13.55	+18 33 16.1	−23 6.5	9.455633	23 54	7 48
25	1 58 58.61	2 11.65	18 10 9.6	23 42.3	9.455596	23 48	7 46
26	1 56 46.96	2 8.85	17 46 27.3	24 9.9	9.456028	23 41	7 43
27	1 54 38.11	2 5.19	17 22 17.4	24 29.1	9.456926	23 35	7 41
28	1 52 32.92	−2 0.74	16 57 48.3	−24 39.9	9.458284	23 29	7 38
29	1 50 32.18	1 55.54	+16 33 8.4	24 42.2	9.460094	23 23	7 35
30	1 48 36.64	1 49.65	16 8 26.2	24 36.5	9.462344	23 17	7 33
Mai 1	1 46 46.99	1 43.15	15 43 49.7	24 22.7	9.465021	23 12	7 30
2	1 45 3.84	1 36.12	15 19 27.0	24 1.4	9.468109	23 6	7 28
3	1 43 27.72	−1 28.62	14 55 25.6	−23 32.9	9.471589	23 0	7 25
4	1 41 59.10	1 20.72	+14 31 52.7	22 57.9	9.475443	22 55	7 23
5	1 40 38.38	1 12.48	14 8 54.8	22 17.0	9.479650	22 50	7 21
6	1 39 25.90	1 4.01	13 46 37.8	21 30.7	9.484188	22 45	7 18
7	1 38 21.89	0 55.36	13 25 7.1	20 39.6	9.489035	22 40	7 16
8	1 37 26.53	−0 46.57	13 4 27.5	−19 44.3	9.494169	22 35	7 14
9	1 36 39.96	0 37.70	+12 44 43.2	18 45.5	9.499568	22 30	7 12
10	1 36 2.26	0 28.79	12 25 57.7	17 43.8	9.505208	22 25	7 11
11	1 35 33.47	0 19.89	12 8 13.9	16 39.9	9.511069	22 21	7 9
12	1 35 13.58	0 11.05	11 51 34.0	15 34.1	9.517130	22 17	7 7
13	1 35 2.53	−0 2.28	11 35 59.9	−14 26.9	9.523370	22 13	7 6
14	1 35 0.25	+0 6.38	+11 21 33.0	13 18.7	9.529769	22 9	7 4
15	1 35 6.63	0 14.91	11 8 14.3	12 10.0	9.536308	22 5	7 3
16	1 35 21.54	0 23.29	10 56 4.3	11 1.1	9.542970	22 1	7 2
17	1 35 44.83	0 31.49	10 45 3.2	9 52.6	9.549738	21 58	7 1
18	1 36 16.32	+0 39.51	10 35 10.6	−8 44.7	9.556596	21 54	7 0
19	1 36 55.83	0 47.34	+10 26 25.9	7 37.5	9.563528	21 51	6 59
20	1 37 43.17	0 54.96	10 18 48.4	6 31.3	9.570520	21 48	6 59
21	1 38 38.13	1 2.37	10 12 17.1	5 26.4	9.577558	21 45	6 58
22	1 39 40.50	1 9.55	10 6 50.7	4 23.1	9.584631	21 42	6 57
23	1 40 50.05	+1 16.50	10 2 27.6	−3 21.4	9.591727	21 39	6 57
24	1 42 6.55	1 23.23	+9 59 6.2	2 21.4	9.598835	21 36	6 57
25	1 43 29.78	1 29.74	9 56 44.8	1 23.4	9.605946	21 34	6 57
26	1 44 59.52	1 36.01	9 55 21.4	−0 27.2	9.613052	21 31	6 56
27	1 46 35.53	1 42.07	9 54 54.2	+0 26.9	9.620144	21 29	6 56
28	1 48 17.60	+1 47.92	9 55 21.1	+1 19.1	9.627216	21 27	6 56
29	1 50 5.52	1 53.55	+9 56 40.2	2 9.2	9.634261	21 25	6 56
30	1 51 59.07	1 58.97	9 58 49.4	2 57.2	9.641273	21 23	6 57
31	1 53 58.04	2 4.20	10 1 46.6	3 43.2	9.648248	21 21	6 57
Juni 1	1 56 2.24	2 9.24	10 5 29.8	4 27.2	9.655181	21 19	6 57
2	1 58 11.48		10 9 57.0		9.662068	21 17	6 58

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Juni	1	1ʰ 56ᵐ 2ˢ.24	+2ᵐ 9ˢ.24	+10° 5′ 29″.8	+4′ 27″.2	9.655181	21ʰ 19ᵐ	6ʰ 57ᵐ
	2	1 58 11.48	2 14.09	10 9 57.0	5 9.2	9.662068	21 17	6 58
	3	2 0 25.57	2 18.76	10 15 6.2	5 49.1	9.668906	21 15	6 58
	4	2 2 44.33	2 23.27	10 20 55.3	6 27.1	9.675692	21 14	6 59
	5	2 5 7.60	+2 27.62	10 27 22.4	+7 3.2	9.682424	21 12	6 59
	6	2 7 35.22	2 31.81	+10 34 25.6	7 37.4	9.689100	21 11	7 0
	7	2 10 7.03	2 35.86	10 42 3.0	8 9.7	9.695717	21 9	7 1
	8	2 12 42.89	2 39.77	10 50 12.7	8 40.3	9.702275	21 8	7 1
	9	2 15 22.66	2 43.55	10 58 53.0	9 9.2	9.708772	21 7	7 2
	10	2 18 6.21	+2 47.23	11 8 2.2	+9 36.5	9.715207	21 5	7 3
	11	2 20 53.44	2 50.79	+11 17 38.7	10 2.1	9.721581	21 4	7 4
	12	2 23 44.23	2 54.26	11 27 40.8	10 26.1	9.727892	21 3	7 5
	13	2 26 38.49	2 57.62	11 38 6.9	10 48.7	9.734139	21 2	7 6
	14	2 29 36.11	3 0.90	11 48 55.6	11 9.6	9.740322	21 1	7 7
	15	2 32 37.01	+3 4.10	12 0 5.2	+11 29.1	9.746442	21 0	7 8
	16	2 35 41.11	3 7.21	+12 11 34.3	11 47.1	9.752498	20 59	7 9
	17	2 38 48.32	3 10.26	12 23 21.4	12 3.7	9.758489	20 58	7 10
	18	2 41 58.58	3 13.22	12 35 25.1	12 18.8	9.764416	20 58	7 12
	19	2 45 11.80	3 16.12	12 47 43.9	12 32.5	9.770278	20 57	7 13
	20	2 48 27.92	+3 18.96	13 0 16.4	+12 44.9	9.776076	20 56	7 14
	21	2 51 46.88	3 21.71	+13 13 1.3	12 55.8	9.781809	20 56	7 15
	22	2 55 8.59	3 24.41	13 25 57.1	13 5.4	9.787478	20 55	7 16
	23	2 58 33.00	3 27.06	13 39 2.5	13 13.8	9.793082	20 55	7 18
	24	3 2 0.06	3 29.64	13 52 16.3	13 20.8	9.798623	20 54	7 19
	25	3 5 29.70	+3 32.17	14 5 37.1	+13 26.5	9.804100	20 54	7 20
	26	3 9 1.87	3 34.65	+14 19 3.6	13 31.0	9.809514	20 53	7 22
	27	3 12 36.52	3 37.08	14 32 34.6	13 34.3	9.814865	20 52	7 23
	28	3 16 13.60	3 39.45	14 46 8.9	13 36.3	9.820154	20 52	7 24
	29	3 19 53.05	3 41.77	14 59 45.2	13 37.1	9.825381	20 52	7 26
	30	3 23 34.82	+3 44.05	15 13 22.3	+13 36.7	9.830547	20 52	7 27
Juli	1	3 27 18.87	3 46.29	+15 26 59.0	13 35.2	9.835652	20 52	7 29
	2	3 31 5.16	3 48.49	15 40 34.2	13 32.7	9.840697	20 52	7 30
	3	3 34 53.65	3 50.63	15 54 6.9	13 29.1	9.845683	20 51	7 31
	4	3 38 44.28	3 52.74	16 7 36.0	13 24.3	9.850611	20 51	7 33
	5	3 42 37.02	+3 54.81	16 21 0.3	+13 18.5	9.855481	20 51	7 34
	6	3 46 31.83	3 56.85	+16 34 18.8	13 11.7	9.860295	20 51	7 35
	7	3 50 28.68	3 58.85	16 47 30.5	13 3.9	9.865052	20 51	7 37
	8	3 54 27.53	4 0.83	17 0 34.4	12 55.1	9.869755	20 51	7 38
	9	3 58 28.36	4 2.78	17 13 29.5	12 45.5	9.874404	20 51	7 40
	10	4 2 31.14		17 26 15.0		9.878999	20 51	7 41

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juli 9	3 58 28.36	+4 2.78	+17 13 29.5	+12 45.5	9.874404	20 51	7 40
10	4 2 31.14	4 4.70	17 26 15.0	12 34.9	9.878999	20 51	7 41
11	4 6 35.84	4 6.59	17 38 49.9	12 23.4	9.883542	20 52	7 42
12	4 10 42.43	4 8.46	17 51 13.3	12 10.9	9.888034	20 52	7 44
13	4 14 50.89	+4 10.31	18 3 24.2	+11 57.6	9.892475	20 52	7 45
14	4 19 1.20	4 12.13	+18 15 21.8	11 43.4	9.896865	20 52	7 46
15	4 23 13.33	4 13.93	18 27 5.2	11 28.4	9.901206	20 52	7 47
16	4 27 27.26	4 15.71	18 38 33.6	11 12.5	9.905498	20 53	7 49
17	4 31 42.97	4 17.45	18 49 46.1	10 55.7	9.909742	20 53	7 50
18	4 36 0.42	+4 19.17	19 0 41.8	+10 38.0	9.913938	20 53	7 51
19	4 40 19.59	4 20.86	+19 11 19.8	10 19.6	9.918087	20 54	7 52
20	4 44 40.45	4 22.52	19 21 39.4	10 0.4	9.922189	20 54	7 53
21	4 49 2.97	4 24.14	19 31 39.8	9 40.3	9.926244	20 55	7 55
22	4 53 27.11	4 25.74	19 41 20.1	9 19.5	9.930254	20 55	7 56
23	4 57 52.85	+4 27.29	19 50 39.6	+ 8 58.0	9.934218	20 56	7 57
24	5 2 20.14	4 28.81	+19 59 37.6	8 35.6	9.938137	20 56	7 58
25	5 6 48.95	4 30.30	20 8 13.2	8 12.5	9.942012	20 57	7 59
26	5 11 19.25	4 31.75	20 16 25.7	7 48.7	9.945843	20 57	8 0
27	5 15 51.00	4 33.15	20 24 14.4	7 24.3	9.949631	20 58	8 1
28	5 20 24.15	+4 34.50	20 31 38.7	+ 6 59.1	9.953376	20 58	8 1
29	5 24 58.65	4 35.82	+20 38 37.8	6 33.3	9.957078	20 59	8 2
30	5 29 34.47	4 37.10	20 45 11.1	6 6.9	9.960738	21 0	8 3
31	5 34 11.57	4 38.33	20 51 18.0	5 40.0	9.964357	21 0	8 4
Aug. 1	5 38 49.90	4 39.51	20 56 58.0	5 12.4	9.967935	21 1	8 4
2	5 43 29.41	+4 40.65	21 2 10.4	+ 4 44.3	9.971472	21 2	8 5
3	5 48 10.06	4 41.73	+21 6 54.7	4 15.7	9.974970	21 2	8 5
4	5 52 51.79	4 42.76	21 11 10.4	3 46.6	9.978429	21 3	8 6
5	5 57 34.55	4 43.76	21 14 57.0	3 17.0	9.981849	21 4	8 6
6	6 2 18.31	4 44.71	21 18 14.0	2 47.0	9.985232	21 5	8 7
7	6 7 3.02	+4 45.61	21 21 1.0	+ 2 16.6	9.988577	21 6	8 7
8	6 11 48.63	4 46.47	+21 23 17.6	1 45.8	9.991886	21 6	8 7
9	6 16 35.10	4 47.29	21 25 3.4	1 14.6	9.995159	21 7	8 8
10	6 21 22.39	4 48.06	21 26 18.0	0 43.0	9.998396	21 8	8 8
11	6 26 10.45	4 48.79	21 27 1.0	+ 0 11.1	0.001598	21 9	8 8
12	6 30 59.24	+4 49.47	21 27 12.1	− 0 21.0	0.004766	21 10	8 8
13	6 35 48.71	4 50.11	+21 26 51.1	0 53.5	0.007900	21 11	8 8
14	6 40 38.82	4 50.70	21 25 57.6	1 26.2	0.011000	21 12	8 8
15	6 45 29.52	4 51.25	21 24 31.4	1 59.2	0.014067	21 12	8 8
16	6 50 20.77	4 51.74	21 22 32.2	2 32.5	0.017101	21 13	8 7
17	6 55 12.51		21 19 59.7		0.020102	21 14	8 7

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	6 50 20.77	+4 51.74	+21 22 32.2	−2 32.5	0.017101	21 13	8 7
17	6 55 12.51	4 52.20	21 19 59.7	3 6.0	0.020102	21 14	8 7
18	7 0 4.71	4 52.61	21 16 53.7	3 39.5	0.023071	21 15	8 7
19	7 4 57.32	4 52.96	21 13 14.2	4 13.2	0.026008	21 16	8 6
20	7 9 50.28	+4 53.26	21 9 1.0	−4 47.0	0.028913	21 17	8 6
21	7 14 43.54	4 53.51	+21 4 14.0	5 20.9	0.031787	21 18	8 5
22	7 19 37.05	4 53.73	20 58 53.1	5 54.8	0.034630	21 19	8 5
23	7 24 30.78	4 53.90	20 52 58.3	6 28.8	0.037442	21 20	8 4
24	7 29 24.68	4 54.01	20 46 29.5	7 2.8	0.040223	21 21	8 3
25	7 34 18.69	+4 54.08	20 39 26.7	−7 36.8	0.042973	21 22	8 2
26	7 39 12.77	4 54.10	+20 31 49.9	8 10.7	0.045693	21 23	8 1
27	7 44 6.87	4 54.08	20 23 39.2	8 44.4	0.048383	21 24	8 0
28	7 49 0.95	4 54.01	20 14 54.8	9 18.0	0.051044	21 25	7 59
29	7 53 54.96	4 53.89	20 5 36.8	9 51.4	0.053675	21 26	7 58
30	7 58 48.85	+4 53.72	19 55 45.4	−10 24.8	0.056277	21 27	7 57
31	8 3 42.57	4 53.53	+19 45 20.6	10 58.0	0.058851	21 28	7 56
Sept. 1	8 8 36.10	4 53.29	19 34 22.6	11 30.9	0.061396	21 29	7 55
2	8 13 29.39	4 53.01	19 22 51.7	12 3.5	0.063914	21 30	7 54
3	8 18 22.40	4 52.70	19 10 48.2	12 35.8	0.066404	21 30	7 52
4	8 23 15.10	+4 52.35	18 58 12.4	−13 7.8	0.068866	21 31	7 51
5	8 28 7.45	4 51.97	+18 45 4.6	13 39.6	0.071302	21 32	7 49
6	8 32 59.42	4 51.57	18 31 25.0	14 11.1	0.073711	21 33	7 48
7	8 37 50.99	4 51.15	18 17 13.9	14 42.2	0.076094	21 34	7 46
8	8 42 42.14	4 50.70	18 2 31.7	15 12.9	0.078452	21 35	7 45
9	8 47 32.84	+4 50.24	17 47 18.8	−15 43.3	0.080785	21 36	7 43
10	8 52 23.08	4 49.75	+17 31 35.5	16 13.2	0.083093	21 37	7 41
11	8 57 12.83	4 49.25	17 15 22.3	16 42.8	0.085376	21 38	7 40
12	9 2 2.08	4 48.73	16 58 39.5	17 12.1	0.087634	21 39	7 38
13	9 6 50.81	4 48.21	16 41 27.4	17 40.9	0.089868	21 39	7 36
14	9 11 39.02	+4 47.67	16 23 46.5	−18 9.1	0.092079	21 40	7 34
15	9 16 26.69	4 47.11	+16 5 37.4	18 37.0	0.094265	21 41	7 33
16	9 21 13.80	4 46.55	15 47 0.4	19 4.4	0.096428	21 42	7 31
17	9 26 0.35	4 45.99	15 27 56.0	19 31.2	0.098568	21 43	7 29
18	9 30 46.34	4 45.42	15 8 24.8	19 57.5	0.100684	21 44	7 27
19	9 35 31.76	+4 44.84	14 48 27.3	−20 23.4	0.102777	21 45	7 25
20	9 40 16.60	4 44.26	+14 28 3.9	20 48.8	0.104847	21 45	7 23
21	9 45 0.86	4 43.69	14 7 15.1	21 13.5	0.106894	21 46	7 21
22	9 49 44.55	4 43.10	13 46 1.6	21 37.7	0.108918	21 47	7 18
23	9 54 27.65	4 42.53	13 24 23.9	22 1.4	0.110920	21 48	7 16
24	9 59 10.18		13 2 22.5		0.112899	21 48	7 14

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	9 54 27.65	+4 42.53	+13 24 23.9	−22 1.4	0.110920	21 48	7 16
24	9 59 10.18	4 41.96	13 2 22.5	22 24.4	0.112899	21 48	7 14
25	10 3 52.14	4 41.38	12 39 58.1	22 46.8	0.114856	21 49	7 12
26	10 8 33.52	4 40.81	12 17 11.3	23 8.6	0.116791	21 50	7 10
27	10 13 14.33	+4 40.26	11 54 2.7	−23 29.8	0.118704	21 51	7 8
28	10 17 54.59	4 39.71	+11 30 32.9	23 50.3	0.120595	21 51	7 5
29	10 22 34.30	4 39.17	11 6 42.6	24 10.1	0.122464	21 52	7 3
30	10 27 13.47	4 38.63	10 42 32.5	24 29.4	0.124312	21 53	7 1
Okt. 1	10 31 52.10	4 38.12	10 18 3.1	24 47.9	0.126138	21 54	6 58
2	10 36 30.22	+4 37.61	9 53 15.2	−25 5.8	0.127943	21 54	6 56
3	10 41 7.83	4 37.13	+ 9 28 9.4	25 23.1	0.129728	21 55	6 54
4	10 45 44.96	4 36.66	9 2 46.3	25 39.7	0.131492	21 56	6 52
5	10 50 21.62	4 36.22	8 37 6.6	25 55.6	0.133236	21 56	6 49
6	10 54 57.84	4 35.80	8 11 11.0	26 10.8	0.134961	21 57	6 47
7	10 59 33.64	+4 35.40	7 45 0.2	−26 25.4	0.136666	21 58	6 44
8	11 4 9.04	4 35.02	+ 7 18 34.8	26 39.4	0.138351	21 58	6 42
9	11 8 44.06	4 34.68	6 51 55.4	26 52.7	0.140017	21 59	6 40
10	11 13 18.74	4 34.37	6 25 2.7	27 5.3	0.141664	22 0	6 37
11	11 17 53.11	4 34.08	5 57 57.4	27 17.3	0.143292	22 0	6 35
12	11 22 27.19	+4 33.83	5 30 40.1	−27 28.6	0.144902	22 1	6 33
13	11 27 1.02	4 33.60	+ 5 3 11.5	27 39.2	0.146494	22 1	6 30
14	11 31 34.62	4 33.41	4 35 32.3	27 49.1	0.148067	22 2	6 28
15	11 36 8.03	4 33.24	4 7 43.2	27 58.3	0.149622	22 3	6 26
16	11 40 41.27	4 33.11	3 39 44.9	28 6.8	0.151159	22 3	6 23
17	11 45 14.38	+4 33.01	3 11 38.1	−28 14.7	0.152678	22 4	6 20
18	11 49 47.39	4 32.95	+ 2 43 23.4	28 21.9	0.154179	22 4	6 18
19	11 54 20.34	4 32.92	2 15 1.5	28 28.4	0.155662	22 5	6 15
20	11 58 53.26	4 32.93	1 36 33.1	28 34.1	0.157128	22 6	6 12
21	12 3 26.19	4 32.97	1 17 59.0	28 39.1	0.158576	22 6	6 10
22	12 7 59.16	+4 33.04	0 49 19.9	−28 43.4	0.160006	22 7	6 8
23	12 12 32.20	4 33.14	+ 0 20 36.5	28 46.9	0.161419	22 7	6 5
24	12 17 5.34	4 33.27	− 0 8 10.4	28 49.8	0.162814	22 8	6 3
25	12 21 38.61	4 33.45	0 37 0.2	28 51.8	0.164192	22 9	6 0
26	12 26 12.06	4 33.66	1 5 52.0	28 53.1	0.165553	22 9	5 58
27	12 30 45.72	+4 33.90	1 34 45.1	−28 53.7	0.166897	22 10	5 55
28	12 35 19.62	4 34.18	− 2 3 38.8	28 53.5	0.168224	22 11	5 53
29	12 39 53.80	4 34.49	2 32 32.3	28 52.4	0.169533	22 11	5 50
30	12 44 28.29	4 34.82	3 1 24.7	28 50.6	0.170825	22 12	5 48
31	12 49 3.11	4 35.20	3 30 15.3	28 48.1	0.172101	22 12	5 45
Nov. 1	12 53 38.31		3 59 3.4		0.173361	22 13	5 43

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Okt. 31	12 49 3.11	+4 35.20	− 3 30 15.3	−28 48.1	0.172101	22 12	5 45
Nov. 1	12 53 38.31	4 35.61	3 59 3.4	28 44.9	0.173361	22 13	5 43
2	12 58 13.92	4 36.05	4 27 48.3	28 40.9	0.174604	22 14	5 40
3	13 2 49.97	4 36.54	4 56 29.2	28 36.1	0.175832	22 14	5 38
4	13 7 26.51	+4 37.06	5 25 5.3	−28 30.5	0.177043	22 15	5 35
5	13 12 3.57	4 37.61	− 5 53 35.8	28 24.1	0.178239	22 15	5 33
6	13 16 41.18	4 38.20	6 21 59.9	28 17.1	0.179420	22 16	5 30
7	13 21 19.38	4 38.83	6 50 17.0	28 9.3	0.180585	22 17	5 28
8	13 25 58.21	4 39.49	7 18 26.3	28 0.7	0.181735	22 18	5 25
9	13 30 37.70	+4 40.20	7 46 27.0	−27 51.4	0.182871	22 19	5 23
10	13 35 17.90	4 40.93	− 8 14 18.4	27 41.3	0.183991	22 19	5 20
11	13 39 58.83	4 41.69	8 41 59.7	27 30.4	0.185097	22 20	5 18
12	13 44 40.52	4 42.50	9 9 30.1	27 18.7	0.186189	22 21	5 15
13	13 49 23.02	4 43.34	9 36 48.8	27 6.3	0.187266	22 22	5 13
14	13 54 6.36	+4 44.21	10 3 55.1	−26 53.0	0.188328	22 22	5 10
15	13 58 50.57	4 45.11	−10 30 48.1	26 39.1	0.189377	22 23	5 8
16	14 3 35.68	4 46.04	10 57 27.2	26 24.3	0.190411	22 24	5 5
17	14 8 21.72	4 47.00	11 23 51.5	26 8.7	0.191432	22 25	5 3
18	14 13 8.72	4 47.99	11 50 0.2	25 52.3	0.192438	22 26	5 0
19	14 17 56.71	+4 49.01	12 15 52.5	−25 35.2	0.193430	22 26	4 58
20	14 22 45.72	4 50.05	−12 41 27.7	25 17.2	0.194408	22 27	4 56
21	14 27 35.77	4 51.12	13 6 44.9	24 58.4	0.195373	22 28	4 53
22	14 32 26.89	4 52.21	13 31 43.3	24 38.8	0.196323	22 29	4 51
23	14 37 19.10	4 53.31	13 56 22.1	24 18.3	0.197259	22 30	4 48
24	14 42 12.41	+4 54.42	14 20 40.4	−23 57.0	0.198182	22 31	4 46
25	14 47 6.83	4 55.55	−14 44 37.4	23 34.8	0.199090	22 32	4 44
26	14 52 2.38	4 56.70	15 8 12.2	23 12.0	0.199985	22 33	4 41
27	14 56 59.08	4 57.87	15 31 24.2	22 48.3	0.200866	22 34	4 39
28	15 1 56.95	4 59.03	15 54 12.5	22 23.8	0.201734	22 35	4 37
29	15 6 55.98	+5 0.21	16 16 36.3	−21 58.4	0.202588	22 36	4 35
30	15 11 56.19	5 1.39	−16 38 34.7	21 32.3	0.203429	22 37	4 32
Dez. 1	15 16 57.58	5 2.58	17 0 7.0	21 5.4	0.204256	22 38	4 30
2	15 22 0.16	5 3.76	17 21 12.4	20 37.7	0.205071	22 39	4 28
3	15 27 3.92	5 4.94	17 41 50.1	20 9.2	0.205873	22 40	4 26
4	15 32 8.86	+5 6.13	18 1 59.3	−19 40.1	0.206662	22 42	4 24
5	15 37 14.99	5 7.32	−18 21 39.4	19 10.2	0.207438	22 43	4 22
6	15 42 22.31	5 8.50	18 40 49.6	18 39.4	0.208202	22 44	4 20
7	15 47 30.81	5 9.67	18 59 29.0	18 7.9	0.208954	22 45	4 18
8	15 52 40.48	5 10.83	19 17 36.9	17 35.8	0.209694	22 46	4 16
9	15 57 51.31		19 35 12.7		0.210421	22 48	4 14

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	15 52 40.48	+5 10.83	−19 17 36.9	−17 35.8	0.209694	22 46	4 16
9	15 57 51.31	5 11.98	19 35 12.7	17 3.0	0.210421	22 48	4 14
10	16 3 3.29	5 13.11	19 52 15.7	16 29.5	0.211137	22 49	4 12
11	16 8 16.40	5 14.23	20 8 45.2	15 55.3	0.211841	22 50	4 10
12	16 13 30.63	+5 15.33	20 24 40.5	−15 20.4	0.212533	22 51	4 8
13	16 18 45.96	5 16.41	−20 40 0.9	14 44.9	0.213214	22 53	4 7
14	16 24 2.37	5 17.47	20 54 45.8	14 8.7	0.213883	22 54	4 5
15	16 29 19.84	5 18.50	21 8 54.5	13 32.0	0.214541	22 55	4 3
16	16 34 38.34	5 19.49	21 22 26.5	12 54.6	0.215187	22 57	4 2
17	16 39 57.83	+5 20.46	21 35 21.1	−12 16.6	0.215822	22 58	4 0
18	16 45 18.29	5 21.39	−21 47 37.7	11 38.1	0.216445	22 59	3 59
19	16 50 39.68	5 22.28	21 59 15.8	10 59.0	0.217057	23 1	3 58
20	16 56 1.96	5 23.13	22 10 14.8	10 19.4	0.217657	23 2	3 56
21	17 1 25.09	5 23.93	22 20 34.2	9 39.4	0.218246	23 4	3 55
22	17 6 49.02	+5 24.68	22 30 13.6	−8 58.8	0.218824	23 5	3 54
23	17 12 13.70	5 25.40	−22 39 12.4	8 17.8	0.219390	23 7	3 53
24	17 17 39.10	5 26.06	22 47 30.2	7 36.4	0.219945	23 8	3 52
25	17 23 5.16	5 26.66	22 55 6.6	6 54.6	0.220488	23 10	3 51
26	17 28 31.82	5 27.19	23 2 1.2	6 12.5	0.221020	23 11	3 50
27	17 33 59.01	+5 27.67	23 8 13.7	−5 30.1	0.221540	23 13	3 49
28	17 39 26.68	5 28.10	−23 13 43.8	4 47.4	0.222049	23 14	3 49
29	17 44 54.78	5 28.47	23 18 31.2	4 4.4	0.222547	23 16	3 48
30	17 50 23.25	5 28.77	23 22 35.6	3 21.1	0.223034	23 17	3 48
31	17 55 52.02	5 29.01	23 25 56.7	2 37.8	0.223510	23 19	3 47
32	18 1 21.03	+5 29.19	23 28 34.5	−1 54.3	0.223975	23 20	3 47
33	18 6 50.22		−23 30 28.8		0.224428	23 22	3 47

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 0	17 27 24.18	+3 12.39	−23 41 1.4	−2 59.3	0.381360	22 49	3 45
1	17 30 36.57	3 12.72	23 44 0.7	2 44.8	0.380698	22 49	3 45
2	17 33 49.29	3 13.05	23 46 45.5	2 30.2	0.380030	22 48	3 45
3	17 37 2.34	3 13.36	23 49 15.7	2 15.5	0.379355	22 47	3 44
4	17 40 15.70	+3 13.65	23 51 31.2	−2 0.7	0.378675	22 46	3 44
5	17 43 29.35	3 13.93	−23 53 31.9	1 45.9	0.377989	22 46	3 44
6	17 46 43.28	3 14.19	23 55 17.8	1 31.0	0.377297	22 45	3 44
7	17 49 57.47	3 14.45	23 56 48.8	1 16.0	0.376599	22 44	3 43
8	17 53 11.92	3 14.68	23 58 4.8	1 1.0	0.375896	22 44	3 43
9	17 56 26.60	+3 14.89	23 59 5.8	−0 46.0	0.375187	22 43	3 43
10	17 59 41.49	3 15.10	−23 59 51.8	0 30.8	0.374472	22 42	3 43
11	18 2 56.59	3 15.30	24 0 22.6	0 15.7	0.373752	22 42	3 43
12	18 6 11.89	3 15.47	24 0 38.3	−0 0.4	0.373027	22 41	3 43
13	18 9 27.36	3 15.63	24 0 38.7	+0 14.8	0.372297	22 40	3 43
14	18 12 42.99	+3 15.78	24 0 23.9	+0 30.0	0.371562	22 39	3 43
15	18 15 58.77	3 15.91	−23 59 53.9	0 45.4	0.370821	22 39	3 43
16	18 19 14.68	3 16.03	23 59 8.5	1 0.7	0.370076	22 38	3 43
17	18 22 30.71	3 16.14	23 58 7.8	1 16.1	0.369326	22 37	3 43
18	18 25 46.85	3 16.24	23 56 51.7	1 31.4	0.368571	22 37	3 43
19	18 29 3.09	+3 16.32	23 55 20.3	+1 46.7	0.367812	22 36	3 44
20	18 32 19.41	3 16.38	−23 53 33.6	2 2.1	0.367049	22 35	3 44
21	18 35 35.79	3 16.43	23 51 31.5	2 17.5	0.366281	22 35	3 44
22	18 38 52.22	3 16.48	23 49 14.0	2 32.8	0.365509	22 34	3 44
23	18 42 8.70	3 16.52	23 46 41.2	2 48.2	0.364733	22 33	3 45
24	18 45 25.22	+3 16.55	23 43 53.0	+3 3.5	0.363953	22 33	3 45
25	18 48 41.77	3 16.55	−23 40 49.5	3 18.9	0.363168	22 32	3 45
26	18 51 58.32	3 16.55	23 37 30.6	3 34.2	0.362380	22 31	3 46
27	18 55 14.87	3 16.53	23 33 56.4	3 49.6	0.361587	22 31	3 46
28	18 58 31.40	3 16.50	23 30 6.8	4 4.8	0.360790	22 30	3 47
29	19 1 47.90	+3 16.45	23 26 2.0	+4 20.1	0.359989	22 29	3 47
30	19 5 4.35	3 16.39	−23 21 41.9	4 35.3	0.359184	22 28	3 48
31	19 8 20.74	3 16.32	23 17 6.6	4 50.4	0.358374	22 28	3 48
Febr. 1	19 11 37.06	3 16.23	23 12 16.2	5 5.6	0.357561	22 27	3 49
2	19 14 53.29	3 16.13	23 7 10.6	5 20.7	0.356743	22 27	3 50
3	19 18 9.42	+3 16.00	23 1 49.9	+5 35.7	0.355922	22 26	3 50
4	19 21 25.42	3 15.87	−22 56 14.2	5 50.6	0.355096	22 25	3 51
5	19 24 41.29	3 15.72	22 50 23.6	6 5.5	0.354267	22 25	3 52
6	19 27 57.01	3 15.57	22 44 18.1	6 20.3	0.353433	22 24	3 52
7	19 31 12.58	3 15.39	22 37 57.8	6 35.0	0.352596	22 23	3 53
8	19 34 27.97		22 31 22.8		0.351756	22 23	3 54

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Febr. 7	19h 31m 12.58s	+3m 15.39s	−22° 37′ 57.8″	+6′ 35.0″	0.352596	22h 23m	3h 53m
8	19 34 27.97	3 15.20	22 31 22.8	6 49.7	0.351756	22 23	3 54
9	19 37 43.17	3 15.00	22 24 33.1	7 4.2	0.350912	22 22	3 55
10	19 40 58.17	3 14.79	22 17 28.9	7 18.6	0.350064	22 21	3 55
11	19 44 12.96	+3 14.57	22 10 10.3	+7 33.0	0.349213	22 21	3 56
12	19 47 27.53	3 14.34	−22 2 37.3	7 47.2	0.348359	22 20	3 57
13	19 50 41.87	3 14.10	21 54 50.1	8 1.4	0.347502	22 19	3 58
14	19 53 55.97	3 13.84	21 46 48.7	8 15.4	0.346642	22 18	3 59
15	19 57 9.81	3 13.58	21 38 33.3	8 29.4	0.345778	22 18	4 0
16	20 0 23.39	+3 13.32	21 30 3.9	+8 43.2	0.344912	22 17	4 1
17	20 3 36.71	3 13.04	−21 21 20.7	8 56.9	0.344044	22 16	4 2
18	20 6 49.75	3 12.76	21 12 23.8	9 10.4	0.343173	22 16	4 3
19	20 10 2.51	3 12.48	21 3 13.4	9 24.0	0.342299	22 15	4 4
20	20 13 14.99	3 12.18	20 53 49.4	9 37.4	0.341423	22 14	4 5
21	20 16 27.17	+3 11.88	20 44 12.0	+9 50.7	0.340545	22 13	4 6
22	20 19 39.05	3 11.58	−20 34 21.3	10 3.8	0.339664	22 13	4 7
23	20 22 50.63	3 11.28	20 24 17.5	10 16.9	0.338781	22 12	4 8
24	20 26 1.91	3 10.96	20 14 0.6	10 29.7	0.337896	22 11	4 10
25	20 29 12.87	3 10.64	20 3 30.9	10 42.5	0.337008	22 10	4 11
26	20 32 23.51	+3 10.31	19 52 48.4	+10 55.1	0.336118	22 10	4 12
27	20 35 33.82	3 9.98	−19 41 53.3	11 7.6	0.335226	22 9	4 13
28	20 38 43.80	3 9.64	19 30 45.7	11 19.9	0.334331	22 8	4 14
März 1	20 41 53.44	3 9.29	19 19 25.8	11 32.1	0.333434	22 7	4 15
2	20 45 2.73	3 8.94	19 7 53.7	11 44.2	0.332534	22 7	4 17
3	20 48 11.67	+3 8.58	18 56 9.5	+11 56.0	0.331632	22 6	4 18
4	20 51 20.25	3 8.22	−18 44 13.5	12 7.6	0.330727	22 5	4 19
5	20 54 28.47	3 7.85	18 32 5.9	12 19.2	0.329820	22 4	4 21
6	20 57 36.32	3 7.47	18 19 46.7	12 30.6	0.328911	22 3	4 22
7	21 0 43.79	3 7.10	18 7 16.1	12 41.7	0.328000	22 2	4 23
8	21 3 50.89	+3 6.71	17 54 34.4	+12 52.7	0.327087	22 2	4 25
9	21 6 57.60	3 6.33	−17 41 41.7	13 3.6	0.326172	22 1	4 26
10	21 10 3.93	3 5.94	17 28 38.1	13 14.2	0.325255	22 0	4 27
11	21 13 9.87	3 5.55	17 15 23.9	13 24.7	0.324335	21 59	4 29
12	21 16 15.42	3 5.16	17 1 59.2	13 35.0	0.323414	21 58	4 30
13	21 19 20.58	+3 4.76	16 48 24.2	+13 45.1	0.322492	21 57	4 31
14	21 22 25.34	3 4.37	−16 34 39.1	13 55.0	0.321568	21 57	4 33
15	21 25 29.71	3 3.98	16 20 44.1	14 4.7	0.320642	21 56	4 34
16	21 28 33.69	3 3.59	16 6 39.4	14 14.4	0.319715	21 55	4 36
17	21 31 37.28	3 3.19	15 52 25.0	14 23.7	0.318786	21 54	4 37
18	21 34 40.47		15 38 1.3		0.317857	21 53	4 39

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	21 31 37.28	+3 3.19	−15 52 25.0	+14 23.7	0.318786	21 54	4 37
18	21 34 40.47	3 2.80	15 38 1.3	14 33.0	0.317857	21 53	4 39
19	21 37 43.27	3 2.42	15 23 28.3	14 42.1	0.316926	21 52	4 40
20	21 40 45.69	3 2.04	15 8 46.2	14 51.0	0.315994	21 51	4 41
21	21 43 47.73	+3 1.66	14 53 55.2	+14 59.7	0.315061	21 50	4 43
22	21 46 49.39	3 1.28	−14 38 55.5	15 8.2	0.314127	21 49	4 44
23	21 49 50.67	3 0.92	14 23 47.3	15 16.6	0.313192	21 49	4 46
24	21 52 51.59	3 0.55	14 8 30.7	15 24.9	0.312256	21 48	4 47
25	21 55 52.14	3 0.18	13 53 5.8	15 32.9	0.311319	21 47	4 49
26	21 58 52.32	+2 59.82	13 37 32.9	+15 40.8	0.310380	21 46	4 50
27	22 1 52.14	2 59.46	−13 21 52.1	15 48.4	0.309441	21 45	4 52
28	22 4 51.60	2 59.11	13 6 3.7	15 55.9	0.308500	21 44	4 53
29	22 7 50.71	2 58.75	12 50 7.8	16 3.2	0.307558	21 43	4 55
30	22 10 49.46	2 58.40	12 34 4.6	16 10.2	0.306614	21 42	4 56
31	22 13 47.86	+2 58.05	12 17 54.4	+16 17.1	0.305669	21 41	4 58
April 1	22 16 45.91	2 57.70	−12 1 37.3	16 23.8	0.304723	21 40	4 59
2	22 19 43.61	2 57.35	11 45 13.5	16 30.2	0.303775	21 39	5 1
3	22 22 40.96	2 57.00	11 28 43.3	16 36.4	0.302826	21 38	5 2
4	22 25 37.96	2 56.66	11 12 6.9	16 42.5	0.301876	21 37	5 4
5	22 28 34.62	+2 56.33	10 55 24.4	+16 48.4	0.300924	21 36	5 6
6	22 31 30.95	2 55.99	−10 38 36.0	16 54.0	0.299971	21 35	5 7
7	22 34 26.94	2 55.66	10 21 42.0	16 59.5	0.299017	21 34	5 9
8	22 37 22.60	2 55.33	10 4 42.5	17 4.7	0.298061	21 33	5 10
9	22 40 17.93	2 55.01	9 47 37.8	17 9.8	0.297104	21 32	5 12
10	22 43 12.94	+2 54.69	9 30 28.0	+17 14.6	0.296146	21 31	5 13
11	22 46 7.63	2 54.37	−9 13 13.4	17 19.2	0.295187	21 30	5 15
12	22 49 2.00	2 54.06	8 55 54.2	17 23.6	0.294227	21 29	5 16
13	22 51 56.06	2 53.76	8 38 30.6	17 27.9	0.293266	21 28	5 18
14	22 54 49.82	2 53.47	8 21 2.7	17 32.0	0.292304	21 27	5 20
15	22 57 43.29	+2 53.19	8 3 30.7	+17 35.9	0.291341	21 26	5 21
16	23 0 36.48	2 52.90	−7 45 54.8	17 39.6	0.290378	21 25	5 23
17	23 3 29.38	2 52.63	7 28 15.2	17 43.1	0.289413	21 24	5 24
18	23 6 22.01	2 52.37	7 10 32.1	17 46.5	0.288448	21 23	5 26
19	23 9 14.38	2 52.12	6 52 45.6	17 49.7	0.287482	21 21	5 28
20	23 12 6.50	+2 51.87	6 34 55.9	+17 52.7	0.286516	21 20	5 29
21	23 14 58.37	2 51.63	−6 17 3.2	17 55.6	0.285548	21 19	5 31
22	23 17 50.00	2 51.40	5 59 7.6	17 58.2	0.284580	21 18	5 32
23	23 20 41.40	2 51.17	5 41 9.4	18 0.7	0.283611	21 17	5 34
24	23 23 32.57	2 50.96	5 23 8.7	18 3.0	0.282640	21 16	5 35
25	23 26 23.53		5 5 5.7		0.281668	21 15	5 37

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
April 24	23 23 32.57	+2 50.96	−5 23 8.7	+18 3.0	0.282640	21 16	5 35
25	23 26 23.53	2 50.74	5 5 5.7	18 5.1	0.281668	21 15	5 37
26	23 29 14.27	2 50.54	4 47 0.6	18 7.0	0.280695	21 14	5 39
27	23 32 4.81	2 50.34	4 28 53.6	18 8.7	0.279721	21 13	5 40
28	23 34 55.15	+2 50.14	4 10 44.9	+18 10.2	0.278745	21 12	5 42
29	23 37 45.29	2 49.95	−3 52 34.7	18 11.6	0.277767	21 11	5 43
30	23 40 35.24	2 49.77	3 34 23.1	18 12.6	0.276788	21 9	5 45
Mai 1	23 43 25.01	2 49.58	3 16 10.5	18 13.5	0.275807	21 8	5 47
2	23 46 14.59	2 49.41	2 57 57.0	18 14.2	0.274824	21 7	5 48
3	23 49 4.00	+2 49.24	2 39 42.8	+18 14.8	0.273840	21 6	5 50
4	23 51 53.24	2 49.08	−2 21 28.0	18 15.0	0.272853	21 5	5 51
5	23 54 42.32	2 48.91	2 3 13.0	18 15.1	0.271865	21 4	5 53
6	23 57 31.23	2 48.76	1 44 57.9	18 15.1	0.270875	21 3	5 55
7	0 0 19.99	2 48.61	1 26 42.8	18 14.8	0.269883	21 2	5 56
8	0 3 8.60	+2 48.46	1 8 28.0	+18 14.3	0.268889	21 0	5 58
9	0 5 57.06	2 48.33	−0 50 13.7	18 13.7	0.267894	20 59	5 59
10	0 8 45.39	2 48.19	0 32 0.0	18 12.9	0.266896	20 58	6 1
11	0 11 33.58	2 48.06	−0 13 47.1	18 11.8	0.265897	20 57	6 2
12	0 14 21.64	2 47.95	+0 4 24.7	18 10.6	0.264896	20 56	6 4
13	0 17 9.59	+2 47.83	0 22 35.3	+18 9.2	0.263893	20 55	6 6
14	0 19 57.42	2 47.73	+0 40 44.5	18 7.7	0.262888	20 54	6 7
15	0 22 45.15	2 47.63	0 58 52.2	18 6.1	0.261882	20 52	6 9
16	0 25 32.78	2 47.54	1 16 58.3	18 4.3	0.260873	20 51	6 10
17	0 28 20.32	2 47.47	1 35 2.6	18 2.2	0.259863	20 50	6 12
18	0 31 7.79	+2 47.40	1 53 4.8	+18 0.1	0.258851	20 49	6 13
19	0 33 55.19	2 47.33	+2 11 4.9	17 57.8	0.257837	20 48	6 15
20	0 36 42.52	2 47.27	2 29 2.7	17 55.4	0.256821	20 47	6 17
21	0 39 29.79	2 47.22	2 46 58.1	17 52.7	0.255802	20 46	6 18
22	0 42 17.01	2 47.18	3 4 50.8	17 49.9	0.254781	20 44	6 20
23	0 45 4.19	+2 47.15	3 22 40.7	+17 47.0	0.253758	20 43	6 21
24	0 47 51.34	2 47.12	+3 40 27.7	17 43.9	0.252732	20 42	6 23
25	0 50 38.46	2 47.08	3 58 11.6	17 40.5	0.251703	20 41	6 24
26	0 53 25.54	2 47.06	4 15 52.1	17 37.1	0.250670	20 40	6 26
27	0 56 12.60	2 47.04	4 33 29.2	17 33.4	0.249635	20 39	6 27
28	0 58 59.64	+2 47.02	4 51 2.6	+17 29.5	0.248596	20 37	6 29
29	1 1 46.66	2 47.01	+5 8 32.1	17 25.5	0.247554	20 36	6 31
30	1 4 33.67	2 47.00	5 25 57.6	17 21.3	0.246509	20 35	6 32
31	1 7 20.67	2 47.00	5 43 18.9	17 17.0	0.245459	20 34	6 34
Juni 1	1 10 7.67	2 46.99	6 0 35.9	17 12.4	0.244406	20 33	6 35
2	1 12 54.66		6 17 48.3		0.243350	20 32	6 37

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juni	1	1 10 7.67	+2 46.99	+ 6 0 35.9	+17 12.4	0.244406	20 33	6 35
	2	1 12 54.66	2 46.98	6 17 48.3	17 7.8	0.243350	20 32	6 37
	3	1 15 41.64	2 46.98	6 34 56.1	17 2.8	0.242289	20 31	6 38
	4	1 18 28.62	2 46.99	6 51 58.9	16 57.7	0.241224	20 29	6 40
	5	1 21 15.61	+2 46.99	7 8 56.6	+16 52.5	0.240155	20 28	6 41
	6	1 24 2.60	2 46.99	+ 7 25 49.1	16 47.1	0.239082	20 27	6 43
	7	1 26 49.59	2 47.00	7 42 36.2	16 41.5	0.238005	20 26	6 44
	8	1 29 36.59	2 47.01	7 59 17.7	16 35.9	0.236924	20 25	6 46
	9	1 32 23.60	2 47.02	8 15 53.6	16 30.0	0.235839	20 24	6 47
	10	1 35 10.62	+2 47.04	8 32 23.6	+16 24.1	0.234749	20 22	6 49
	11	1 37 57.66	2 47.06	+ 8 48 47.7	16 18.0	0.233655	20 21	6 50
	12	1 40 44.72	2 47.09	9 5 5.7	16 11.7	0.232557	20 20	6 52
	13	1 43 31.81	2 47.12	9 21 17.4	16 5.3	0.231455	20 19	6 53
	14	1 46 18.93	2 47.16	9 37 22.7	15 58.9	0.230348	20 18	6 55
	15	1 49 6.09	+2 47.19	9 53 21.6	+15 52.3	0.229237	20 17	6 56
	16	1 51 53.28	2 47.24	+10 9 13.9	15 45.5	0.228121	20 15	6 58
	17	1 54 40.52	2 47.29	10 24 59.4	15 38.7	0.227001	20 14	6 59
	18	1 57 27.81	2 47.34	10 40 38.1	15 31.7	0.225875	20 13	7 1
	19	2 0 15.15	2 47.39	10 56 9.8	15 24.6	0.224744	20 12	7 2
	20	2 3 2.54	+2 47.44	11 11 34.4	+15 17.3	0.223608	20 11	7 3
	21	2 5 49.98	2 47.50	+11 26 51.7	15 10.0	0.222467	20 10	7 4
	22	2 8 37.48	2 47.55	11 42 1.7	15 2.4	0.221320	20 9	7 6
	23	2 11 25.03	2 47.61	11 57 4.1	14 54.8	0.220166	20 7	7 8
	24	2 14 12.64	2 47.66	12 11 58.9	14 47.0	0.219007	20 6	7 9
	25	2 17 0.30	+2 47.72	12 26 45.9	+14 39.0	0.217841	20 5	7 11
	26	2 19 48.02	2 47.77	+12 41 24.9	14 31.0	0.216669	20 4	7 12
	27	2 22 35.79	2 47.81	12 55 55.9	14 22.8	0.215490	20 3	7 13
	28	2 25 23.60	2 47.85	13 10 18.7	14 14.5	0.214304	20 2	7 15
	29	2 28 11.45	2 47.90	13 24 33.2	14 6.0	0.213111	20 0	7 16
	30	2 30 59.35	+2 47.94	13 38 39.2	+13 57.5	0.211911	19 59	7 18
Juli	1	2 33 47.29	2 47.97	+13 52 36.7	13 48.7	0.210704	19 58	7 19
	2	2 36 35.26	2 48.00	14 6 25.4	13 39.9	0.209489	19 57	7 20
	3	2 39 23.26	2 48.02	14 20 5.3	13 31.0	0.208266	19 56	7 22
	4	2 42 11.28	2 48.04	14 33 36.3	13 21.9	0.207036	19 55	7 23
	5	2 44 59.32	+2 48.05	14 46 58.2	+13 12.8	0.205798	19 54	7 24
	6	2 47 47.37	2 48.06	+15 0 11.0	13 3.5	0.204552	19 52	7 26
	7	2 50 35.43	2 48.06	15 13 14.5	12 54.1	0.203299	19 51	7 27
	8	2 53 23.49	2 48.07	15 26 8.6	12 44.7	0.202037	19 50	7 28
	9	2 56 11.56	2 48.07	15 38 53.3	12 35.2	0.200768	19 49	7 30
	10	2 58 59.63		15 51 28.5		0.199490	19 48	7 31

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juli 9	2 56 11.56	+2 48.07	+15 38 53.3	+12 35.2	0.200768	19 49	7 30
10	2 58 59.63	2 48.07	15 51 28.5	12 25.6	0.199490	19 48	7 31
11	3 1 47.70	2 48.06	16 3 54.1	12 15.9	0.198205	19 47	7 32
12	3 4 35.76	2 48.05	16 16 10.0	12 6.2	0.196911	19 46	7 34
13	3 7 23.81	+2 48.05	16 28 16.2	+11 56.4	0.195609	19 45	7 35
14	3 10 11.86	2 48.05	+16 40 12.6	11 46.6	0.194298	19 43	7 36
15	3 12 59.91	2 48.03	16 51 59.2	11 36.6	0.192979	19 42	7 37
16	3 15 47.94	2 48.00	17 3 35.8	11 26.6	0.191650	19 41	7 39
17	3 18 35.94	2 47.98	17 15 2.4	11 16.6	0.190313	19 40	7 40
18	3 21 23.92	+2 47.96	17 26 19.0	+11 6.5	0.188966	19 39	7 41
19	3 24 11.88	2 47.92	+17 37 25.5	10 56.3	0.187610	19 38	7 42
20	3 26 59.80	2 47.89	17 48 21.8	10 46.1	0.186243	19 37	7 43
21	3 29 47.69	2 47.84	17 59 7.9	10 35.8	0.184867	19 35	7 44
22	3 32 35.53	2 47.78	18 9 43.7	10 25.3	0.183481	19 34	7 46
23	3 35 23.31	+2 47.71	18 20 9.0	+10 14.9	0.182084	19 33	7 47
24	3 38 11.02	2 47.64	+18 30 23.9	10 4.4	0.180676	19 32	7 48
25	3 40 58.66	2 47.56	18 40 28.3	9 53.8	0.179257	19 31	7 49
26	3 43 46.22	2 47.46	18 50 22.1	9 43.2	0.177826	19 30	7 50
27	3 46 33.68	2 47.35	19 0 5.3	9 32.6	0.176384	19 28	7 51
28	3 49 21.03	+2 47.24	19 9 37.9	+9 21.8	0.174931	19 27	7 52
29	3 52 8.27	2 47.11	+19 18 59.7	9 11.1	0.173466	19 26	7 53
30	3 54 55.38	2 46.96	19 28 10.8	9 0.3	0.171988	19 25	7 54
31	3 57 42.34	2 46.80	19 37 11.1	8 49.5	0.170498	19 24	7 55
Aug. 1	4 0 29.14	2 46.62	19 46 0.6	8 38.7	0.168996	19 23	7 56
2	4 3 15.76	+2 46.44	19 54 39.3	+8 27.8	0.167482	19 22	7 57
3	4 6 2.20	2 46.25	+20 3 7.1	8 16.9	0.165954	19 20	7 58
4	4 8 48.45	2 46.04	20 11 24.0	8 6.0	0.164414	19 19	7 59
5	4 11 34.49	2 45.82	20 19 30.0	7 55.1	0.162861	19 18	8 0
6	4 14 20.31	2 45.59	20 27 25.1	7 44.3	0.161296	19 17	8 1
7	4 17 5.90	+2 45.34	20 35 9.4	+7 33.4	0.159717	19 16	8 2
8	4 19 51.24	2 45.09	+20 42 42.8	7 22.6	0.158126	19 14	8 3
9	4 22 36.33	2 44.84	20 50 5.4	7 11.8	0.156521	19 13	8 4
10	4 25 21.17	2 44.57	20 57 17.2	7 1.0	0.154903	19 12	8 4
11	4 28 5.74	2 44.28	21 4 18.2	6 50.2	0.153272	19 11	8 5
12	4 30 50.02	+2 43.99	21 11 8.4	+6 39.5	0.151627	19 10	8 6
13	4 33 34.01	2 43.70	+21 17 47.9	6 28.8	0.149968	19 8	8 7
14	4 36 17.71	2 43.39	21 24 16.7	6 18.2	0.148295	19 7	8 8
15	4 39 1.10	2 43.06	21 30 34.9	6 7.6	0.146607	19 6	8 8
16	4 41 44.16	2 42.73	21 36 42.5	5 57.0	0.144905	19 5	8 9
17	4 44 26.89		21 42 39.5		0.143188	19 4	8 10

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	4 41 44.16	+2 42.73	+21 36 42.5	+5 57.0	0.144905	19 5	8 9
17	4 44 26.89	2 42.37	21 42 39.5	5 46.3	0.143188	19 4	8 10
18	4 47 9.26	2 42.01	21 48 25.8	5 35.8	0.141456	19 2	8 10
19	4 49 51.27	2 41.63	21 54 1.6	5 25.3	0.139708	19 1	8 11
20	4 52 32.90	+2 41.24	21 59 26.9	+5 14.9	0.137944	19 0	8 12
21	4 55 14.14	2 40.83	+22 4 41.8	5 4.5	0.136165	18 59	8 12
22	4 57 54.97	2 40.41	22 9 46.3	4 54.2	0.134369	18 57	8 13
23	5 0 35.38	2 39.96	22 14 40.5	4 43.9	0.132557	18 56	8 14
24	5 3 15.34	2 39.49	22 19 24.4	4 33.6	0.130727	18 55	8 14
25	5 5 54.83	+2 39.00	22 23 58.0	+4 23.5	0.128881	18 53	8 15
26	5 8 33.83	2 38.51	+22 28 21.5	4 13.5	0.127017	18 52	8 15
27	5 11 12.34	2 38.00	22 32 35.0	4 3.4	0.125136	18 51	8 16
28	5 13 50.34	2 37.44	22 36 38.4	3 53.5	0.123236	18 50	8 16
29	5 16 27.78	2 36.87	22 40 31.9	3 43.6	0.121319	18 48	8 17
30	5 19 4.65	+2 36.29	22 44 15.5	+3 34.0	0.119384	18 47	8 17
31	5 21 40.94	2 35.69	+22 47 49.5	3 24.3	0.117430	18 46	8 18
Sept. 1	5 24 16.63	2 35.07	22 51 13.8	3 14.8	0.115458	18 44	8 18
2	5 26 51.70	2 34.42	22 54 28.6	3 5.5	0.113468	18 43	8 19
3	5 29 26.12	2 33.76	22 57 34.1	2 56.2	0.111459	18 42	8 19
4	5 31 59.88	+2 33.09	23 0 30.3	+2 47.0	0.109431	18 40	8 19
5	5 34 32.97	2 32.40	+23 3 17.3	2 38.0	0.107385	18 39	8 20
6	5 37 5.37	2 31.70	23 5 55.3	2 29.2	0.105320	18 37	8 20
7	5 39 37.07	2 30.98	23 8 24.5	2 20.5	0.103237	18 36	8 20
8	5 42 8.05	2 30.25	23 10 45.0	2 11.8	0.101134	18 35	8 21
9	5 44 38.30	+2 29.50	23 12 56.8	+2 3.3	0.099012	18 33	8 21
10	5 47 7.80	2 28.74	+23 15 0.1	1 55.0	0.096871	18 32	8 21
11	5 49 36.54	2 27.95	23 16 55.1	1 46.9	0.094710	18 30	8 21
12	5 52 4.49	2 27.16	23 18 42.0	1 38.9	0.092529	18 29	8 22
13	5 54 31.65	2 26.34	23 20 20.9	1 30.9	0.090328	18 27	8 22
14	5 56 57.99	+2 25.50	23 21 51.8	+1 23.1	0.088106	18 26	8 22
15	5 59 23.49	2 24.64	+23 23 14.9	1 15.6	0.085864	18 24	8 22
16	6 1 48.13	2 23.78	23 24 30.5	1 8.1	0.083600	18 23	8 22
17	6 4 11.91	2 22.89	23 25 38.6	1 0.9	0.081315	18 21	8 22
18	6 6 34.80	2 21.96	23 26 39.5	0 53.9	0.079009	18 20	8 23
19	6 8 56.76	+2 21.02	23 27 33.4	+0 46.9	0.076681	18 18	8 23
20	6 11 17.78	2 20.07	+23 28 20.3	0 40.2	0.074331	18 16	8 23
21	6 13 37.85	2 19.08	23 29 0.5	0 33.7	0.071958	18 15	8 23
22	6 15 56.93	2 18.06	23 29 34.2	0 27.2	0.069563	18 13	8 23
23	6 18 14.99	2 17.03	23 30 1.4	0 21.1	0.067145	18 11	8 23
24	6 20 32.02		23 30 22.5		0.064704	18 10	8 23

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	6 18 14.99	+2 17.03	+23 30 1.4	+0 21.1	0.067145	18 11	8 23
24	6 20 32.02	2 15.97	23 30 22.5	0 15.1	0.064704	18 10	8 23
25	6 22 47.99	2 14.87	23 30 37.6	0 9.3	0.062240	18 8	8 23
26	6 25 2.86	2 13.75	23 30 46.9	+0 3.9	0.059752	18 6	8 23
27	6 27 16.61	+2 12.60	23 30 50.8	−0 1.5	0.057241	18 5	8 23
28	6 29 29.21	2 11.43	+23 30 49.3	0 6.6	0.054706	18 3	8 23
29	6 31 40.64	2 10.22	23 30 42.7	0 11.4	0.052148	18 1	8 23
30	6 33 50.86	2 9.00	23 30 31.3	0 16.1	0.049567	17 59	8 23
Okt. 1	6 35 59.86	2 7.74	23 30 15.2	0 20.4	0.046962	17 58	8 23
2	6 38 7.60	+2 6.47	23 29 54.8	−0 24.6	0.044333	17 56	8 23
3	6 40 14.07	2 5.17	+23 29 30.2	0 28.5	0.041681	17 54	8 23
4	6 42 19.24	2 3.85	23 29 1.7	0 32.2	0.039006	17 52	8 23
5	6 44 23.09	2 2.51	23 28 29.5	0 35.6	0.036308	17 50	8 23
6	6 46 25.60	2 1.14	23 27 53.9	0 38.8	0.033586	17 48	8 23
7	6 48 26.74	+1 59.76	23 27 15.1	−0 41.7	0.030841	17 46	8 23
8	6 50 26.50	1 58.35	+23 26 33.4	0 44.4	0.028073	17 45	8 23
9	6 52 24.85	1 56.92	23 25 49.0	0 46.9	0.025281	17 43	8 22
10	6 54 21.77	1 55.46	23 25 2.1	0 49.0	0.022466	17 41	8 22
11	6 56 17.23	1 53.96	23 24 13.1	0 51.0	0.019627	17 39	8 22
12	6 58 11.19	+1 52.44	23 23 22.1	−0 52.8	0.016764	17 37	8 22
13	7 0 3.63	1 50.90	+23 22 29.3	0 54.2	0.013878	17 34	8 22
14	7 1 54.53	1 49.33	23 21 35.1	0 55.3	0.010968	17 32	8 22
15	7 3 43.86	1 47.73	23 20 39.8	0 56.1	0.008034	17 30	8 22
16	7 5 31.59	1 46.08	23 19 43.7	0 56.7	0.005076	17 28	8 22
17	7 7 17.67	+1 44.41	23 18 47.0	−0 57.1	0.002094	17 26	8 22
18	7 9 2.08	1 42.71	+23 17 49.9	0 57.2	9.999089	17 24	8 21
19	7 10 44.79	1 40.96	23 16 52.7	0 56.9	9.996059	17 21	8 21
20	7 12 25.75	1 39.17	23 15 55.8	0 56.3	9.993006	17 19	8 21
21	7 14 4.92	1 37.34	23 14 59.5	0 55.5	9.989929	17 17	8 21
22	7 15 42.26	+1 35.48	23 14 4.0	−0 54.3	9.986829	17 15	8 21
23	7 17 17.74	1 33.57	+23 13 9.7	0 52.9	9.983706	17 12	8 21
24	7 18 51.31	1 31.61	23 12 16.8	0 51.1	9.980560	17 10	8 21
25	7 20 22.92	1 29.61	23 11 25.7	0 48.9	9.977391	17 7	8 21
26	7 21 52.53	1 27.57	23 10 36.8	0 46.4	9.974200	17 5	8 21
27	7 23 20.10	+1 25.49	23 9 50.4	−0 43.7	9.970987	17 3	8 20
28	7 24 45.59	1 23.36	+23 9 6.7	0 40.6	9.967753	17 0	8 20
29	7 26 8.95	1 21.19	23 8 26.1	0 37.2	9.964499	16 57	8 20
30	7 27 30.14	1 18.99	23 7 48.9	0 33.5	9.961225	16 55	8 20
31	7 28 49.13	1 16.73	23 7 15.4	0 29.5	9.957933	16 52	8 20
Nov. 1	7 30 5.86		23 6 45.9		9.954623	16 49	8 20

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Okt. 31	7 28 49.13	+1 16.73	+23 7 15.4	−0 29.5	9.957933	16 52	8 20
Nov. 1	7 30 5.86	1 14.44	23 6 45.9	0 25.1	9.954623	16 49	8 20
2	7 31 20.30	1 12.11	23 6 20.8	0 20.4	9.951295	16 47	8 20
3	7 32 32.41	1 9.75	23 6 0.4	0 15.5	9.947951	16 44	8 20
4	7 33 42.16	+1 7.34	23 5 44.9	−0 10.4	9.944592	16 41	8 20
5	7 34 49.50	1 4.89	+23 5 34.5	−0 4.9	9.941218	16 39	8 20
6	7 35 54.39	1 2.40	23 5 29.6	+0 0.9	9.937830	16 36	8 20
7	7 36 56.79	0 59.87	23 5 30.5	0 7.0	9.934429	16 33	8 20
8	7 37 56.66	0 57.28	23 5 37.5	0 13.4	9.931016	16 30	8 20
9	7 38 53.94	+0 54.66	23 5 50.9	+0 19.9	9.927592	16 27	8 20
10	7 39 48.60	0 51.98	+23 6 10.8	0 26.8	9.924159	16 24	8 20
11	7 40 40.58	0 49.25	23 6 37.6	0 33.9	9.920717	16 21	8 20
12	7 41 29.83	0 46.48	23 7 11.5	0 41.3	9.917267	16 18	8 20
13	7 42 16.31	0 43.65	23 7 52.8	0 48.9	9.913811	16 14	8 20
14	7 42 59.96	+0 40.78	23 8 41.7	+0 56.9	9.910350	16 11	8 20
15	7 43 40.74	0 37.84	+23 9 38.6	1 5.1	9.906886	16 8	8 20
16	7 44 18.58	0 34.85	23 10 43.7	1 13.5	9.903420	16 5	8 21
17	7 44 53.43	0 31.80	23 11 57.2	1 22.1	9.899954	16 1	8 21
18	7 45 25.23	0 28.70	23 13 19.3	1 30.9	9.896489	15 58	8 21
19	7 45 53.93	+0 25.54	23 14 50.2	+1 40.0	9.893028	15 54	8 21
20	7 46 19.47	0 22.32	+23 16 30.2	1 49.2	9.889572	15 51	8 21
21	7 46 41.79	0 19.05	23 18 19.4	1 58.7	9.886124	15 47	8 22
22	7 47 0.84	0 15.72	23 20 18.1	2 8.2	9.882687	15 44	8 22
23	7 47 16.56	0 12.33	23 22 26.3	2 17.9	9.879263	15 40	8 22
24	7 47 28.89	+0 8.91	23 24 44.2	+2 27.7	9.875854	15 36	8 22
25	7 47 37.80	0 5.43	+23 27 11.9	2 37.7	9.872464	15 32	8 23
26	7 47 43.23	+0 1.92	23 29 49.6	2 47.6	9.869096	15 28	8 23
27	7 47 45.15	−0 1.63	23 32 37.2	2 57.5	9.865752	15 25	8 23
28	7 47 43.52	0 5.21	23 35 34.7	3 7.3	9.862437	15 21	8 24
29	7 47 38.31	−0 8.82	23 38 42.0	+3 17.1	9.859153	15 17	8 24
30	7 47 29.49	0 12.45	+23 41 59.1	3 26.8	9.855905	15 13	8 25
Dez. 1	7 47 17.04	0 16.11	23 45 25.9	3 36.3	9.852696	15 8	8 25
2	7 47 0.93	0 19.77	23 49 2.2	3 45.7	9.849529	15 4	8 25
3	7 46 41.16	0 23.45	23 52 47.9	3 54.8	9.846408	15 0	8 26
4	7 46 17.71	−0 27.13	23 56 42.7	+4 3.8	9.843337	14 55	8 26
5	7 45 50.58	0 30.81	+24 0 46.5	4 12.4	9.840319	14 51	8 27
6	7 45 19.77	0 34.50	24 4 58.9	4 20.6	9.837359	14 47	8 28
7	7 44 45.27	0 38.17	24 9 19.5	4 28.6	9.834460	14 42	8 28
8	7 44 7.10	0 41.83	24 13 48.1	4 36.1	9.831626	14 38	8 29
9	7 43 25.27		24 18 24.2		9.828862	14 33	8 29

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	7 44 7.10	−0 41.83	+24 13 48.1	+4 36.1	9.831626	14 38	8 29
9	7 43 25.27	0 45.48	24 18 24.2	4 43.3	9.828862	14 33	8 29
10	7 42 39.79	0 49.10	24 23 7.5	4 49.9	9.826172	14 28	8 30
11	7 41 50.69	0 52.68	24 27 57.4	4 56.0	9.823560	14 24	8 31
12	7 40 58.01	−0 56.23	24 32 53.4	+5 1.6	9.821030	14 19	8 31
13	7 40 1.78	0 59.73	+24 37 55.0	5 6.5	9.818586	14 14	8 32
14	7 39 2.05	1 3.18	24 43 1.5	5 11.0	9.816232	14 9	8 33
15	7 37 58.87	1 6.58	24 48 12.5	5 14.9	9.813974	14 4	8 33
16	7 36 52.29	1 9.91	24 53 27.4	5 18.1	9.811815	13 59	8 34
17	7 35 42.38	−1 13.16	24 58 45.5	+5 20.4	9.809759	13 54	8 35
18	7 34 29.22	1 16.32	+25 4 5.9	5 22.1	9.807811	13 49	8 35
19	7 33 12.90	1 19.37	25 9 28.0	5 23.2	9.805976	13 43	8 36
20	7 31 53.53	1 22.31	25 14 51.2	5 23.5	9.804257	13 38	8 37
21	7 30 31.22	1 25.14	25 20 14.7	5 22.9	9.802660	13 33	8 38
22	7 29 6.08	−1 27.82	25 25 37.6	+5 21.5	9.801188	13 28	8 38
23	7 27 38.26	1 30.35	+25 30 59.1	5 19.4	9.799844	13 22	8 39
24	7 26 7.91	1 32.72	25 36 18.5	5 16.4	9.798633	13 17	8 40
25	7 24 35.19	1 34.93	25 41 34.9	5 12.6	9.797559	13 11	8 41
26	7 23 0.26	1 36.94	25 46 47.5	5 7.9	9.796625	13 6	8 41
27	7 21 23.32	−1 38.75	25 51 55.4	+5 2.5	9.795834	13 0	8 42
28	7 19 44.57	1 40.36	+25 56 57.9	4 56.3	9.795189	12 54	8 43
29	7 18 4.21	1 41.77	26 1 54.2	4 49.3	9.794692	12 49	8 44
30	7 16 22.44	1 42.96	26 6 43.5	4 41.7	9.794345	12 43	8 44
31	7 14 39.48	1 43.93	26 11 25.2	4 33.4	9.794149	12 38	8 45
32	7 12 55.55	−1 44.69	26 15 58.6	+4 24.5	9.794105	12 32	8 46
33	7 11 10.86		+26 20 23.1		9.794214	12 26	8 46

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 0	17 57 42.16	+1 58.64	−23 13 24.0	−0 14.0	0.794006	23 20	3 49
2	17 59 40.80	1 58.36	23 13 38.0	0 8.4	0.793537	23 14	3 49
4	18 1 39.16	1 57.99	23 13 46.4	−0 2.6	0.793008	23 8	3 49
6	18 3 37.15	1 57.57	23 13 49.0	+0 2.7	0.792418	23 2	3 49
8	18 5 34.72	+1 57.11	23 13 46.3	+0 8.4	0.791768	22 56	3 49
10	18 7 31.83	1 56.59	−23 13 37.9	0 13.9	0.791058	22 50	3 49
12	18 9 28.42	1 56.01	23 13 24.0	0 19.1	0.790288	22 44	3 49
14	18 11 24.43	1 55.37	23 13 4.9	0 24.4	0.789459	22 38	3 49
16	18 13 19.80	1 54.69	23 12 40.5	0 29.5	0.788570	22 32	3 49
18	18 15 14.49	+1 53.97	23 12 11.0	+0 34.4	0.787621	22 26	3 49
20	18 17 8.46	1 53.19	−23 11 36.6	0 39.2	0.786617	22 20	3 49
22	18 19 1.65	1 52.38	23 10 57.4	0 43.9	0.785553	22 14	3 49
24	18 20 54.03	1 51.51	23 10 13.5	0 48.6	0.784431	22 8	3 49
26	18 22 45.54	1 50.60	23 9 24.9	0 53.0	0.783252	22 2	3 49
28	18 24 36.14	+1 49.62	23 8 31.9	+0 57.3	0.782015	21 56	3 49
30	18 26 25.76	1 48.60	−23 7 34.6	1 1.3	0.780721	21 50	3 49
Febr. 1	18 28 14.36	1 47.51	23 6 33.3	1 5.3	0.779370	21 44	3 50
3	18 30 1.87	1 46.38	23 5 28.0	1 9.1	0.777962	21 38	3 50
5	18 31 48.25	1 45.18	23 4 18.9	1 12.9	0.776498	21 32	3 50
7	18 33 33.43	+1 43.92	23 3 6.0	+1 16.1	0.774978	21 26	3 50
9	18 35 17.35	1 42.60	−23 1 49.9	1 19.2	0.773403	21 20	3 50
11	18 36 59.95	1 41.23	23 0 30.7	1 22.0	0.771773	21 13	3 50
13	18 38 41.18	1 39.80	22 59 8.7	1 24.8	0.770090	21 7	3 50
15	18 40 20.98	1 38.33	22 57 43.9	1 27.2	0.768354	21 1	3 51
17	18 41 59.31	+1 36.80	22 56 16.7	+1 29.5	0.766566	20 55	3 51
19	18 43 36.11	1 35.23	−22 54 47.2	1 31.4	0.764727	20 48	3 51
21	18 45 11.34	1 33.63	22 53 15.8	1 33.1	0.762837	20 42	3 51
23	18 46 44.97	1 31.95	22 51 42.7	1 34.7	0.760897	20 36	3 51
25	18 48 16.92	1 30.22	22 50 8.0	1 36.0	0.758908	20 29	3 52
27	18 49 47.14	+1 28.45	22 48 32.0	+1 37.0	0.756870	20 23	3 52
März 1	18 51 15.59	1 26.60	−22 46 55.0	1 37.7	0.754785	20 17	3 52
3	18 52 42.19	1 24.69	22 45 17.3	1 38.2	0.752652	20 10	3 52
5	18 54 6.88	1 22.71	22 43 39.1	1 38.4	0.750474	20 4	3 52
7	18 55 29.59	1 20.68	22 42 0.7	1 38.3	0.748250	19 57	3 53
9	18 56 50.27	+1 18.60	22 40 22.4	+1 37.9	0.745983	19 51	3 53
11	18 58 8.87	1 16.46	−22 38 44.5	1 37.3	0.743673	19 44	3 53
13	18 59 25.33	1 14.26	22 37 7.2	1 36.2	0.741324	19 38	3 53
15	19 0 39.59	1 12.01	22 35 31.0	1 35.0	0.738935	19 31	3 53
17	19 1 51.60	1 9.71	22 33 56.0	1 33.5	0.736508	19 24	3 54
19	19 3 1.31		22 32 22.5		0.734045	19 17	3 54

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
März 17	19 1 51.60	+1 9.71	−22 33 56.0	+1 33.5	0.736508	19 24	3 54
19	19 3 1.31	1 7.38	22 32 22.5	1 31.7	0.734045	19 17	3 54
21	19 4 8.69	1 4.99	22 30 50.8	1 29.7	0.731548	19 11	3 54
23	19 5 13.68	1 2.55	22 29 21.1	1 27.3	0.729017	19 4	3 54
25	19 6 16.23	+1 0.06	22 27 53.8	+1 24.8	0.726455	18 57	3 54
27	19 7 16.29	0 57.51	−22 26 29.0	1 22.0	0.723863	18 50	3 54
29	19 8 13.80	0 54.90	22 25 7.0	1 18.8	0.721242	18 43	3 55
31	19 9 8.70	0 52.22	22 23 48.2	1 15.4	0.718595	18 36	3 55
April 2	19 10 0.92	0 49.48	22 22 32.8	1 11.8	0.715923	18 29	3 55
4	19 10 50.40	+0 46.72	22 21 21.0	+1 7.9	0.713228	18 22	3 55
6	19 11 37.12	0 43.89	−22 20 13.1	1 3.7	0.710514	18 15	3 55
8	19 12 21.01	0 41.01	22 19 9.4	0 59.3	0.707782	18 8	3 55
10	19 13 2.02	0 38.10	22 18 10.1	0 54.6	0.705036	18 1	3 55
12	19 13 40.12	0 35.14	22 17 15.5	0 49.8	0.702277	17 53	3 56
14	19 14 15.26	+0 32.15	22 16 25.7	+0 44.7	0.699509	17 46	3 56
16	19 14 47.41	0 29.14	−22 15 41.0	0 39.6	0.696735	17 39	3 56
18	19 15 16.55	0 26.10	22 15 1.4	0 34.2	0.693957	17 31	3 56
20	19 15 42.65	0 23.02	22 14 27.2	0 28.7	0.691178	17 24	3 56
22	19 16 5.67	0 19.90	22 13 58.5	0 23.0	0.688400	17 16	3 56
24	19 16 25.57	+0 16.75	22 13 35.5	+0 17.2	0.685627	17 9	3 56
26	19 16 42.32	0 13.58	−22 13 18.3	0 11.4	0.682861	17 1	3 56
28	19 16 55.90	0 10.37	22 13 6.9	+0 5.4	0.680106	16 54	3 56
30	19 17 6.27	0 7.13	22 13 1.5	−0 0.7	0.677365	16 46	3 56
Mai 2	19 17 13.40	0 3.89	22 13 2.2	0 6.9	0.674642	16 38	3 56
4	19 17 17.29	+0 0.63	22 13 9.1	−0 13.1	0.671942	16 30	3 56
6	19 17 17.92	−0 2.62	−22 13 22.2	0 19.2	0.669268	16 23	3 56
8	19 17 15.30	0 5.87	22 13 41.4	0 25.5	0.666623	16 15	3 56
10	19 17 9.43	0 9.10	22 14 6.9	0 31.6	0.664012	16 7	3 56
12	19 17 0.33	0 12.31	22 14 38.5	0 37.7	0.661439	15 59	3 56
14	19 16 48.02	−0 15.48	22 15 16.2	−0 43.7	0.658909	15 50	3 56
16	19 16 32.54	0 18.63	−22 15 59.9	0 49.4	0.656424	15 42	3 56
18	19 16 13.91	0 21.74	22 16 49.3	0 55.1	0.653989	15 34	3 56
20	19 15 52.17	0 24.81	22 17 44.4	1 0.6	0.651608	15 26	3 55
22	19 15 27.36	0 27.84	22 18 45.0	1 6.0	0.649284	15 18	3 55
24	19 14 59.52	−0 30.83	22 19 51.0	−1 11.1	0.647022	15 9	3 55
26	19 14 28.69	0 33.75	−22 21 2.1	1 16.0	0.644826	15 1	3 55
28	19 13 54.94	0 36.62	22 22 18.1	1 20.7	0.642700	14 52	3 55
30	19 13 18.32	0 39.39	22 23 38.8	1 25.1	0.640649	14 44	3 55
Juni 1	19 12 38.93	0 42.09	22 25 3.9	1 29.2	0.638676	14 35	3 55
3	19 11 56.84		22 26 33.1		0.636786	14 27	3 54

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juni 1	19 12 38.93	−0 42.09	−22 25 3.9	−1 29.2	0.638676	14 35	3 55
3	19 11 56.84	0 44.69	22 26 33.1	1 33.2	0.636786	14 27	3 54
5	19 11 12.15	0 47.18	22 28 6.3	1 36.7	0.634983	14 18	3 54
7	19 10 24.97	0 49.53	22 29 43.0	1 39.9	0.633271	14 9	3 54
9	19 9 35.44	−0 51.75	22 31 22.9	−1 42.7	0.631654	14 1	3 54
11	19 8 43.69	0 53.84	−22 33 5.6	1 45.1	0.630136	13 52	3 54
13	19 7 49.85	0 55.77	22 34 50.7	1 47.0	0.628719	13 43	3 53
15	19 6 54.08	0 57.58	22 36 37.7	1 48.6	0.627406	13 34	3 53
17	19 5 56.50	0 59.23	22 38 26.3	1 49.9	0.626201	13 26	3 53
19	19 4 57.27	−1 0.74	22 40 16.2	−1 50.9	0.625105	13 17	3 53
21	19 3 56.53	1 2.10	−22 42 7.1	1 51.4	0.624122	13 8	3 53
23	19 2 54.43	1 3.28	22 43 58.5	1 51.6	0.623253	12 59	3 52
25	19 1 51.15	1 4.29	22 45 50.1	1 51.4	0.622501	12 50	3 52
27	19 0 46.86	1 5.13	22 47 41.5	1 51.0	0.621867	12 41	3 52
29	18 59 41.73	−1 5.80	22 49 32.5	−1 50.1	0.621354	12 32	3 52
Juli 1	18 58 35.93	1 6.25	−22 51 22.6	1 49.0	0.620962	12 23	3 51
3	18 57 29.68	1 6.50	22 53 11.6	1 47.6	0.620693	12 14	3 51
5	18 56 23.18	1 6.57	22 54 59.2	1 45.8	0.620548	12 5	3 51
7	18 55 16.61	1 6.43	22 56 45.0	1 43.7	0.620527	11 56	3 51
9	18 54 10.18	−1 6.10	22 58 28.7	−1 41.6	0.620630	11 47	3 51
11	18 53 4.08	1 5.55	−23 0 10.3	1 39.0	0.620856	11 38	3 50
13	18 51 58.53	1 4.85	23 1 49.3	1 36.2	0.621204	11 29	3 50
15	18 50 53.68	1 3.97	23 3 25.5	1 33.2	0.621672	11 20	3 50
17	18 49 49.71	1 2.91	23 4 58.7	1 30.2	0.622259	11 11	3 50
19	18 48 46.80	−1 1.68	23 6 28.9	−1 27.0	0.622964	11 2	3 50
21	18 47 45.12	1 0.29	−23 7 55.9	1 23.8	0.623785	10 53	3 49
23	18 46 44.83	0 58.73	23 9 19.7	1 20.4	0.624720	10 44	3 49
25	18 45 46.10	0 57.02	23 10 40.1	1 17.1	0.625767	10 36	3 49
27	18 44 49.08	0 55.14	23 11 57.2	1 13.6	0.626922	10 27	3 49
29	18 43 53.94	−0 53.11	23 13 10.8	−1 10.0	0.628184	10 18	3 49
31	18 43 0.83	0 50.92	−23 14 20.8	1 6.5	0.629550	10 9	3 49
Aug. 2	18 42 9.91	0 48.61	23 15 27.3	1 2.9	0.631017	10 0	3 49
4	18 41 21.30	0 46.14	23 16 30.2	0 59.4	0.632580	9 52	3 48
6	18 40 35.16	0 43.56	23 17 29.6	0 55.8	0.634237	9 43	3 48
8	18 39 51.60	−0 40.86	23 18 25.4	−0 52.3	0.635982	9 34	3 48
10	18 39 10.74	0 38.10	−23 19 17.7	0 48.8	0.637813	9 26	3 48
12	18 38 32.64	0 35.23	23 20 6.5	0 45.4	0.639723	9 17	3 48
14	18 37 57.41	0 32.31	23 20 51.9	0 42.0	0.641710	9 9	3 48
16	18 37 25.10	0 29.31	23 21 33.9	0 38.7	0.643770	9 0	3 48
18	18 36 55.79		23 22 12.6		0.645898	8 52	3 48

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	18 37 25.10	−0 29.31	−23 21 33.9	−0 38.7	0.643770	9 0	3 48
18	18 36 55.79	0 26.25	23 22 12.6	0 35.4	0.645898	8 52	3 48
20	18 36 29.54	0 23.13	23 22 48.0	0 32.2	0.648091	8 44	3 48
22	18 36 6.41	0 19.96	23 23 20.2	0 29.1	0.650344	8 36	3 48
24	18 35 46.45	−0 16.75	23 23 49.3	−0 26.0	0.652653	8 27	3 48
26	18 35 29.70	0 13.49	−23 24 15.3	0 22.9	0.655015	8 19	3 47
28	18 35 16.21	0 10.19	23 24 38.2	0 19.8	0.657425	8 11	3 47
30	18 35 6.02	0 6.88	23 24 58.0	0 16.9	0.659880	8 3	3 47
Sept. 1	18 34 59.14	0 3.52	23 25 14.9	0 13.8	0.662376	7 55	3 47
3	18 34 55.62	−0 0.18	23 25 28.7	−0 10.8	0.664907	7 47	3 47
5	18 34 55.44	+0 3.18	−23 25 39.5	0 7.8	0.667470	7 39	3 47
7	18 34 58.62	0 6.51	23 25 47.3	0 4.7	0.670060	7 31	3 47
9	18 35 5.13	0 9.84	23 25 52.0	−0 1.7	0.672674	7 24	3 47
11	18 35 14.97	0 13.13	23 25 53.7	+0 1.3	0.675308	7 16	3 47
13	18 35 28.10	+0 16.40	23 25 52.4	+0 4.4	0.677958	7 8	3 47
15	18 35 44.50	0 19.64	−23 25 48.0	0 7.4	0.680621	7 1	3 47
17	18 36 4.14	0 22.86	23 25 40.6	0 10.5	0.683294	6 53	3 47
19	18 36 27.00	0 26.05	23 25 30.1	0 13.7	0.685973	6 45	3 47
21	18 36 53.05	0 29.20	23 25 16.4	0 16.9	0.688656	6 38	3 47
23	18 37 22.25	+0 32.33	23 24 59.5	+0 20.2	0.691340	6 31	3 47
25	18 37 54.58	0 35.43	−23 24 39.3	0 23.6	0.694021	6 23	3 47
27	18 38 30.01	0 38.49	23 24 15.7	0 27.1	0.696697	6 16	3 47
29	18 39 8.50	0 41.51	23 23 48.6	0 30.7	0.699366	6 9	3 48
Okt. 1	18 39 50.01	0 44.48	23 23 17.9	0 34.3	0.702023	6 2	3 48
3	18 40 34.49	+0 47.39	23 22 43.6	+0 38.1	0.704667	5 54	3 48
5	18 41 21.88	0 50.25	−23 22 5.5	0 42.0	0.707293	5 47	3 48
7	18 42 12.13	0 53.04	23 21 23.5	0 46.0	0.709901	5 40	3 48
9	18 43 5.17	0 55.77	23 20 37.5	0 50.0	0.712487	5 33	3 48
11	18 44 0.94	0 58.44	23 19 47.5	0 54.2	0.715050	5 26	3 48
13	18 44 59.38	+1 1.05	23 18 53.3	+0 58.4	0.717587	5 19	3 48
15	18 46 0.43	1 3.60	−23 17 54.9	1 2.9	0.720097	5 13	3 48
17	18 47 4.03	1 6.10	23 16 52.0	1 7.4	0.722578	5 6	3 48
19	18 48 10.13	1 8.55	23 15 44.6	1 12.1	0.725029	4 59	3 49
21	18 49 18.68	1 10.94	23 14 32.5	1 16.9	0.727447	4 52	3 49
23	18 50 29.62	+1 13.27	23 13 15.6	+1 21.7	0.729832	4 45	3 49
25	18 51 42.89	1 15.56	−23 11 53.9	1 26.8	0.732181	4 39	3 49
27	18 52 58.45	1 17.79	23 10 27.1	1 31.9	0.734492	4 32	3 49
29	18 54 16.24	1 19.96	23 8 55.2	1 37.2	0.736765	4 25	3 49
31	18 55 36.20	1 22.06	23 7 18.0	1 42.6	0.738997	4 19	3 50
Nov. 2	18 56 58.26		23 5 35.4		0.741187	4 13	3 50

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Okt. 31	18 55 36.20	+1 22.06	−23 7 18.0	+1 42.6	0.738997	4 19	3 50
Nov. 2	18 56 58.26	1 24.07	23 5 35.4	1 48.1	0.741187	4 13	3 50
4	18 58 22.33	1 26.04	23 3 47.3	1 53.8	0.743334	4 6	3 50
6	18 59 48.37	1 27.93	23 1 53.5	1 59.6	0.745436	4 0	3 50
8	19 1 16.30	+1 29.77	22 59 53.9	+2 5.3	0.747493	3 53	3 50
10	19 2 46.07	1 31.53	−22 57 48.6	2 11.2	0.749503	3 47	3 51
12	19 4 17.60	1 33.23	22 55 37.4	2 17.1	0.751466	3 40	3 51
14	19 5 50.83	1 34.88	22 53 20.3	2 23.1	0.753381	3 34	3 51
16	19 7 25.71	1 36.48	22 50 57.2	2 29.2	0.755247	3 28	3 52
18	19 9 2.19	+1 38.03	22 48 28.0	+2 35.4	0.757064	3 21	3 52
20	19 10 40.22	1 39.51	−22 45 52.6	2 41.8	0.758830	3 15	3 52
22	19 12 19.73	1 40.95	22 43 10.8	2 48.2	0.760545	3 9	3 52
24	19 14 0.68	1 42.33	22 40 22.6	2 54.7	0.762208	3 3	3 53
26	19 15 43.01	1 43.64	22 37 27.9	3 1.2	0.763818	2 57	3 53
28	19 17 26.65	+1 44.90	22 34 26.7	+3 7.7	0.765374	2 50	3 53
30	19 19 11.55	1 46.10	−22 31 19.0	3 14.3	0.766875	2 44	3 54
Dez. 2	19 20 57.65	1 47.22	22 28 4.7	3 20.8	0.768321	2 38	3 54
4	19 22 44.87	1 48.28	22 24 43.9	3 27.5	0.769711	2 32	3 55
6	19 24 33.15	1 49.30	22 21 16.4	3 34.1	0.771045	2 26	3 55
8	19 26 22.45	+1 50.25	22 17 42.3	+3 40.7	0.772323	2 20	3 55
10	19 28 12.70	1 51.14	−22 14 1.6	3 47.3	0.773544	2 14	3 56
12	19 30 3.84	1 51.99	22 10 14.3	3 53.9	0.774708	2 8	3 56
14	19 31 55.83	1 52.78	22 6 20.4	4 0.5	0.775814	2 2	3 57
16	19 33 48.61	1 53.53	22 2 19.9	4 7.0	0.776862	1 56	3 57
18	19 35 42.14	+1 54.22	21 58 12.9	+4 13.6	0.777853	1 50	3 58
20	19 37 36.36	1 54.88	−21 53 59.3	4 20.2	0.778785	1 44	3 58
22	19 39 31.24	1 55.49	21 49 39.1	4 26.7	0.779660	1 38	3 59
24	19 41 26.73	1 56.04	21 45 12.4	4 33.1	0.780475	1 32	3 59
26	19 43 22.77	1 56.53	21 40 39.3	4 39.5	0.781230	1 26	4 0
28	19 45 19.30	+1 56.96	21 35 59.8	+4 45.8	0.781925	1 20	4 0
30	19 47 16.26	1 57.34	−21 31 14.0	4 51.9	0.782560	1 14	4 1
32	19 49 13.60	1 57.66	21 26 22.1	4 58.0	0.783134	1 8	4 1
34	19 51 11.26		21 21 24.1		0.783648	1 2	4 2

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Jan. 0	3 44 30.99	−24.28	+17 38 40.3	−0 49.6	0.919872	9 6	7 42
2	3 44 6.71	22.73	17 37 50.7	0 44.1	0.921046	8 58	7 42
4	3 43 43.98	21.14	17 37 6.6	0 38.4	0.922264	8 50	7 42
6	3 43 22.84	19.51	17 36 28.2	0 32.7	0.923523	8 42	7 42
8	3 43 3.33	−17.83	17 35 55.5	−0 26.8	0.924821	8 33	7 42
10	3 42 45.50	16.12	+17 35 28.7	0 20.7	0.926156	8 25	7 42
12	3 42 29.38	14.37	17 35 8.0	0 14.6	0.927526	8 17	7 42
14	3 42 15.01	12.60	17 34 53.4	0 8.4	0.928927	8 9	7 42
16	3 42 2.41	10.81	17 34 45.0	−0 2.2	0.930358	8 1	7 42
18	3 41 51.60	− 9.01	17 34 42.8	+0 4.1	0.931816	7 53	7 42
20	3 41 42.59	7.19	+17 34 46.9	0 10.3	0.933298	7 45	7 42
22	3 41 35.40	5.36	17 34 57.2	0 16.6	0.934803	7 37	7 42
24	3 41 30.04	3.52	17 35 13.8	0 22.8	0.936328	7 29	7 42
26	3 41 26.52	− 1.68	17 35 36.6	0 29.1	0.937871	7 21	7 42
28	3 41 24.84	+ 0.17	17 36 5.7	+0 35.3	0.939430	7 13	7 42
30	3 41 25.01	2.03	+17 36 41.0	0 41.6	0.941004	7 5	7 42
Febr. 1	3 41 27.04	3.89	17 37 22.6	0 47.8	0.942589	6 57	7 42
3	3 41 30.93	5.75	17 38 10.4	0 54.0	0.944184	6 49	7 42
5	3 41 36.68	7.61	17 39 4.4	1 0.0	0.945786	6 42	7 42
7	3 41 44.29	+ 9.46	17 40 4.4	+1 6.0	0.947393	6 34	7 42
9	3 41 53.75	11.29	+17 41 10.4	1 12.0	0.949003	6 26	7 43
11	3 42 5.04	13.11	17 42 22.4	1 17.7	0.950614	6 18	7 43
13	3 42 18.15	14.92	17 43 40.1	1 23.4	0.952224	6 11	7 43
15	3 42 33.07	16.69	17 45 3.5	1 28.9	0.953831	6 3	7 43
17	3 42 49.76	+18.44	17 46 32.4	+1 34.2	0.955433	5 56	7 43
19	3 43 8.20	20.18	+17 48 6.6	1 39.5	0.957028	5 48	7 43
21	3 43 28.38	21.89	17 49 46.1	1 44.6	0.958614	5 40	7 43
23	3 43 50.27	23.57	17 51 30.7	1 49.6	0.960191	5 33	7 44
25	3 44 13.84	25.24	17 53 20.3	1 54.5	0.961756	5 25	7 44
27	3 44 39.08	+26.89	17 55 14.8	+1 59.2	0.963308	5 18	7 44
März 1	3 45 5.97	28.51	+17 57 14.0	2 3.8	0.964846	5 10	7 44
3	3 45 34.48	30.09	17 59 17.8	2 8.1	0.966368	5 3	7 44
5	3 46 4.57	31.67	18 1 25.9	2 12.3	0.967872	4 56	7 45
7	3 46 36.24	33.21	18 3 38.2	2 16.5	0.969357	4 48	7 45
9	3 47 9.45	+34.71	18 5 54.7	+2 20.3	0.970821	4 41	7 45
11	3 47 44.16	36.17	+18 8 15.0	2 24.0	0.972263	4 34	7 45
13	3 48 20.33	37.60	18 10 39.0	2 27.5	0.973683	4 26	7 46
15	3 48 57.93	38.99	18 13 6.5	2 30.7	0.975078	4 19	7 46
17	3 49 36.92	40.35	18 15 37.2	2 33.8	0.976448	4 12	7 46
19	3 50 17.27		18 18 11.0		0.977791	4 5	7 46

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
März 17	3 49 36.92	+40.35	+18 15 37.2	+2 33.8	0.976448	4 12	7 46
19	3 50 17.27	41.67	18 18 11.0	2 36.8	0.977791	4 5	7 46
21	3 50 58.94	42.95	18 20 47.8	2 39.5	0.979107	3 58	7 47
23	3 51 41.89	44.21	18 23 27.3	2 42.1	0.980394	3 50	7 47
25	3 52 26.10	+45.43	18 26 9.4	+2 44.6	0.981653	3 43	7 47
27	3 53 11.53	46.62	+18 28 54.0	2 46.8	0.982882	3 36	7 48
29	3 53 58.15	47.78	18 31 40.8	2 48.9	0.984080	3 29	7 48
31	3 54 45.93	48.90	18 34 29.7	2 50.8	0.985246	3 22	7 48
April 2	3 55 34.83	49.99	18 37 20.5	2 52.5	0.986380	3 15	7 49
4	3 56 24.82	+51.04	18 40 13.0	+2 54.0	0.987481	3 8	7 49
6	3 57 15.86	52.06	+18 43 7.0	2 55.4	0.988547	3 1	7 49
8	3 58 7.92	53.02	18 46 2.4	2 56.7	0.989579	2 54	7 49
10	3 59 0.94	53.96	18 48 59.1	2 57.6	0.990575	2 47	7 50
12	3 59 54.90	54.84	18 51 56.7	2 58.5	0.991536	2 40	7 50
14	4 0 49.74	+55.69	18 54 55.2	+2 59.0	0.992460	2 33	7 50
16	4 1 45.43	56.51	+18 57 54.2	2 59.5	0.993347	2 26	7 51
18	4 2 41.94	57.29	19 0 53.7	2 59.9	0.994197	2 19	7 51
20	4 3 39.23	58.04	19 3 53.6	3 0.1	0.995009	2 12	7 51
22	4 4 37.27	58.75	19 6 53.7	3 0.1	0.995783	2 5	7 52
24	4 5 36.02	+59.43	19 9 53.8	+3 0.1	0.996519	1 58	7 52
26	4 6 35.45	60.08	+19 12 53.9	2 59.8	0.997216	1 51	7 52
28	4 7 35.53	60.68	19 15 53.7	2 59.5	0.997874	1 44	7 53
30	4 8 36.21	61.26	19 18 53.2	2 59.0	0.998492	1 37	7 53
Mai 2	4 9 37.47	61.79	19 21 52.2	2 58.3	0.999071	1 31	7 53
4	4 10 39.26	+62.29	19 24 50.5	+2 57.5	0.999610	1 24	7 54
6	4 11 41.55	62.76	+19 27 48.0	2 56.6	1.000108	1 17	7 54
8	4 12 44.31	63.17	19 30 44.6	2 55.5	1.000566	1 10	7 54
10	4 13 47.48	63.56	19 33 40.1	2 54.3	1.000983	1 3	7 55
12	4 14 51.04	63.90	19 36 34.4	2 53.0	1.001359	0 56	7 55
14	4 15 54.94	+64.20	19 39 27.4	+2 51.5	1.001694	0 50	7 55
16	4 16 59.14	64.48	+19 42 18.9	2 50.1	1.001987	0 43	7 56
18	4 18 3.62	64.72	19 45 9.0	2 48.4	1.002239	0 36	7 56
20	4 19 8.34	64.92	19 47 57.4	2 46.7	1.002450	0 29	7 56
22	4 20 13.26	65.09	19 50 44.1	2 44.9	1.002620	0 22	7 57
24	4 21 18.35	+65.23	19 53 29.0	+2 42.9	1.002749	0 16	7 57
26	4 22 23.58	65.33	+19 56 11.9	2 41.0	1.002838	0 9	7 57
28	4 23 28.91	65.40	19 58 52.9	2 38.9	1.002885	0 2	7 58
30	4 24 34.31	65.44	20 1 31.8	2 36.8	1.002891	23 55	7 58
Juni 1	4 25 39.75	65.44	20 4 8.6	2 34.5	1.002855	23 48	7 58
3	4 26 45.19		20 6 43.1		1.002777	23 42	7 59

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR. h m s	Diff. s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Juni	1	4 25 39.75	+65.44	+20 4 8.6	+2 34.5	1.002855	23 48	7 58
	3	4 26 45.19	65.40	20 6 43.1	2 32.1	1.002777	23 42	7 59
	5	4 27 50.59	65.32	20 9 15.2	2 29.7	1.002658	23 35	7 59
	7	4 28 55.91	65.19	20 11 44.9	2 27.1	1.002498	23 28	7 59
	9	4 30 1.10	+65.03	20 14 12.0	+2 24.6	1.002296	23 21	7 59
	11	4 31 6.13	64.83	+20 16 36.6	2 21.9	1.002053	23 14	8 0
	13	4 32 10.96	64.60	20 18 58.5	2 19.3	1.001770	23 8	8 0
	15	4 33 15.56	64.34	20 21 17.8	2 16.6	1.001446	23 1	8 0
	17	4 34 19.90	64.05	20 23 34.4	2 13.8	1.001081	22 54	8 0
	19	4 35 23.95	+63.71	20 25 48.2	+2 11.0	1.000677	22 47	8 1
	21	4 36 27.66	63.35	+20 27 59.2	2 8.2	1.000233	22 40	8 1
	23	4 37 31.01	62.95	20 30 7.4	2 5.3	0.999750	22 33	8 1
	25	4 38 33.96	62.52	20 32 12.7	2 2.4	0.999227	22 27	8 1
	27	4 39 36.48	62.05	20 34 15.1	1 59.4	0.998665	22 20	8 2
	29	4 40 38.53	+61.55	20 36 14.5	+1 56.4	0.998063	22 13	8 2
Juli	1	4 41 40.08	60.99	+20 38 10.9	1 53.4	0.997422	22 6	8 2
	3	4 42 41.07	60.40	20 40 4.3	1 50.3	0.996743	21 59	8 2
	5	4 43 41.47	59.77	20 41 54.6	1 47.3	0.996025	21 52	8 3
	7	4 44 41.24	59.10	20 43 41.9	1 44.1	0.995270	21 45	8 3
	9	4 45 40.34	+58.40	20 45 26.0	+1 40.9	0.994477	21 39	8 3
	11	4 46 38.74	57.66	+20 47 6.9	1 37.9	0.993647	21 32	8 3
	13	4 47 36.40	56.88	20 48 44.8	1 34.8	0.992781	21 25	8 3
	15	4 48 33.28	56.08	20 50 19.6	1 31.7	0.991879	21 18	8 4
	17	4 49 29.36	55.23	20 51 51.3	1 28.6	0.990942	21 11	8 4
	19	4 50 24.59	+54.36	20 53 19.9	+1 25.4	0.989971	21 4	8 4
	21	4 51 18.95	53.44	+20 54 45.3	1 22.3	0.988965	20 57	8 4
	23	4 52 12.39	52.49	20 56 7.6	1 19.2	0.987926	20 50	8 4
	25	4 53 4.88	51.51	20 57 26.8	1 16.2	0.986853	20 43	8 4
	27	4 53 56.39	50.48	20 58 43.0	1 13.0	0.985747	20 36	8 5
	29	4 54 46.87	+49.41	20 59 56.0	+1 9.9	0.984609	20 29	8 5
	31	4 55 36.28	48.30	+21 1 5.9	1 6.8	0.983440	20 22	8 5
Aug.	2	4 56 24.58	47.16	21 2 12.7	1 3.8	0.982240	20 15	8 5
	4	4 57 11.74	45.96	21 3 16.5	1 0.8	0.981010	20 8	8 5
	6	4 57 57.70	44.74	21 4 17.3	0 57.7	0.979751	20 0	8 5
	8	4 58 42.44	+43.48	21 5 15.0	+0 54.7	0.978464	19 53	8 5
	10	4 59 25.92	42.19	+21 6 9.7	0 51.8	0.977150	19 46	8 5
	12	5 0 8.11	40.87	21 7 1.5	0 48.8	0.975809	19 39	8 5
	14	5 0 48.98	39.52	21 7 50.3	0 46.0	0.974444	19 32	8 6
	16	5 1 28.50	38.14	21 8 36.3	0 43.1	0.973055	19 25	8 6
	18	5 2 6.64		21 9 19.4		0.971643	19 17	8 6

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Aug. 16	5 1 28.50	+38.14	+21 8 36.3	+0 43.1	0.973055	19 25	8 6
18	5 2 6.64	36.72	21 9 19.4	0 40.3	0.971643	19 17	8 6
20	5 2 43.36	35.26	21 9 59.7	0 37.4	0.970208	19 10	8 6
22	5 3 18.62	33.78	21 10 37.1	0 34.5	0.968752	19 3	8 6
24	5 3 52.40	+32.25	21 11 11.6	+0 31.8	0.967275	18 55	8 6
26	5 4 24.65	30.70	+21 11 43.4	0 29.1	0.965780	18 48	8 6
28	5 4 55.35	29.10	21 12 12.5	0 26.4	0.964267	18 41	8 6
30	5 5 24.45	27.47	21 12 38.9	0 23.7	0.962738	18 33	8 6
Sept. 1	5 5 51.92	25.81	21 13 2.6	0 21.0	0.961193	18 26	8 6
3	5 6 17.73	+24.12	21 13 23.6	+0 18.4	0.959635	18 18	8 6
5	5 6 41.85	22.41	+21 13 42.0	0 15.9	0.958065	18 11	8 6
7	5 7 4.26	20.68	21 13 57.9	0 13.3	0.956485	18 3	8 6
9	5 7 24.94	18.93	21 14 11.2	0 10.9	0.954896	17 56	8 6
11	5 7 43.87	17.17	21 14 22.1	0 8.4	0.953300	17 48	8 6
13	5 8 1.04	+15.38	21 14 30.5	+0 6.0	0.951698	17 41	8 6
15	5 8 16.42	13.57	+21 14 36.5	0 3.7	0.950092	17 33	8 6
17	5 8 29.99	11.74	21 14 40.2	+0 1.3	0.948485	17 25	8 6
19	5 8 41.73	9.90	21 14 41.5	−0 1.0	0.946878	17 18	8 6
21	5 8 51.63	8.04	21 14 40.5	0 3.4	0.945272	17 10	8 6
23	5 8 59.67	+ 6.16	21 14 37.1	−0 5.6	0.943669	17 2	8 6
25	5 9 5.83	4.27	+21 14 31.5	0 7.9	0.942071	16 54	8 6
27	5 9 10.10	2.38	21 14 23.6	0 10.1	0.940479	16 47	8 6
29	5 9 12.48	+ 0.47	21 14 13.5	0 12.3	0.938897	16 39	8 6
Okt. 1	5 9 12.95	− 1.43	21 14 1.2	0 14.5	0.937326	16 31	8 6
3	5 9 11.52	− 3.32	21 13 46.7	−0 16.5	0.935769	16 23	8 6
5	5 9 8.20	5.21	+21 13 30.2	0 18.6	0.934227	16 15	8 6
7	5 9 2.99	7.08	21 13 11.6	0 20.6	0.932704	16 7	8 6
9	5 8 55.91	8.95	21 12 51.0	0 22.7	0.931201	15 59	8 6
11	5 8 46.96	10.80	21 12 28.3	0 24.6	0.929720	15 51	8 6
13	5 8 36.16	−12.62	21 12 3.7	−0 26.5	0.928263	15 43	8 6
15	5 8 23.54	14.43	+21 11 37.2	0 28.5	0.926833	15 35	8 6
17	5 8 9.11	16.20	21 11 8.7	0 30.3	0.925431	15 27	8 6
19	5 7 52.91	17.96	21 10 38.4	0 32.2	0.924060	15 19	8 6
21	5 7 34.95	19.69	21 10 6.2	0 34.1	0.922722	15 10	8 6
23	5 7 15.26	−21.39	21 9 32.1	−0 35.8	0.921419	15 2	8 6
25	5 6 53.87	23.06	+21 8 56.3	0 37.6	0.920154	14 54	8 6
27	5 6 30.81	24.68	21 8 18.7	0 39.3	0.918930	14 46	8 6
29	5 6 6.13	26.25	21 7 39.4	0 41.0	0.917747	14 37	8 6
31	5 5 39.88	27.76	21 6 58.4	0 42.6	0.916609	14 29	8 5
Nov. 2	5 5 12.12		21 6 15.8		0.915517	14 21	8 5

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Okt. 31	5 5 39.88	−27.76	+21 6 58.4	−0 42.6	0.916609	14 29	8 5
Nov. 2	5 5 12.12	29.20	21 6 15.8	0 44.0	0.915517	14 21	8 5
4	5 4 42.92	30.60	21 5 31.8	0 45.4	0.914474	14 12	8 5
6	5 4 12.32	31.91	21 4 46.4	0 46.8	0.913482	14 4	8 5
8	5 3 40.41	−33.16	21 3 59.6	−0 48.1	0.912542	13 56	8 5
10	5 3 7.25	34.35	+21 3 11.5	0 49.4	0.911656	13 47	8 5
12	5 2 32.90	35.46	21 2 22.1	0 50.6	0.910826	13 39	8 5
14	5 1 57.44	36.49	21 1 31.5	0 51.7	0.910053	13 30	8 5
16	5 1 20.95	37.46	21 0 39.8	0 52.8	0.909339	13 22	8 5
18	5 0 43.49	−38.34	20 59 47.0	−0 53.6	0.908686	13 13	8 5
20	5 0 5.15	39.15	+20 58 53.4	0 54.5	0.908094	13 5	8 5
22	4 59 26.00	39.87	20 57 58.9	0 55.1	0.907565	12 56	8 4
24	4 58 46.13	40.50	20 57 3.8	0 55.8	0.907100	12 48	8 4
26	4 58 5.63	41.02	20 56 8.0	0 56.2	0.906701	12 39	8 4
28	4 57 24.61	−41.45	20 55 11.8	−0 56.6	0.906369	12 30	8 4
30	4 56 43.16	41.78	+20 54 15.2	0 56.8	0.906105	12 22	8 4
Dez. 2	4 56 1.38	42.01	20 53 18.4	0 56.8	0.905908	12 13	8 4
4	4 55 19.37	42.15	20 52 21.6	0 56.7	0.905779	12 5	8 4
6	4 54 37.22	42.17	20 51 24.9	0 56.4	0.905719	11 56	8 4
8	4 53 55.05	−42.11	20 50 28.5	−0 56.0	0.905727	11 48	8 4
10	4 53 12.94	41.95	+20 49 32.5	0 55.5	0.905804	11 39	8 3
12	4 52 30.99	41.69	20 48 37.0	0 54.8	0.905949	11 30	8 3
14	4 51 49.30	41.35	20 47 42.2	0 53.9	0.906162	11 22	8 3
16	4 51 7.95	40.91	20 46 48.3	0 53.0	0.906443	11 13	8 3
18	4 50 27.04	−40.38	20 45 55.3	−0 51.9	0.906790	11 5	8 3
20	4 49 46.66	39.77	+20 45 3.4	0 50.5	0.907203	10 56	8 3
22	4 49 6.89	39.06	20 44 12.9	0 49.0	0.907683	10 48	8 3
24	4 48 27.83	38.25	20 43 23.9	0 47.3	0.908228	10 39	8 3
26	4 47 49.58	37.36	20 42 36.6	0 45.5	0.908836	10 30	8 3
28	4 47 12.22	−36.37	20 41 51.1	−0 43.4	0.909507	10 22	8 3
30	4 46 35.85	35.30	+20 41 7.7	0 41.3	0.910240	10 13	8 2
32	4 46 0.55	34.14	20 40 26.4	0 38.8	0.911032	10 5	8 2
34	4 45 26.41		20 39 47.6		0.911882	9 57	8 2

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Jan. 0	20 18 11.67	+27.68	−20 14 27.9	+91.0	1.316015	1 40	4 9
2	20 18 39.35	27.94	20 12 56.9	92.1	1.316289	1 33	4 10
4	20 19 7.29	28.17	20 11 24.8	93.0	1.316542	1 25	4 10
6	20 19 35.46	28.37	20 9 51.8	93.8	1.316772	1 18	4 10
8	20 20 3.83	+28.56	20 8 18.0	+94.7	1.316978	1 10	4 10
10	20 20 32.39	28.72	−20 6 43.3	95.4	1.317160	1 3	4 10
12	20 21 1.11	28.86	20 5 7.9	96.0	1.317319	0 56	4 11
14	20 21 29.97	28.97	20 3 31.9	96.6	1.317455	0 48	4 11
16	20 21 58.94	29.05	20 1 55.3	97.1	1.317567	0 41	4 11
18	20 22 27.99	+29.12	20 0 18.2	+97.4	1.317655	0 33	4 11
20	20 22 57.11	29.15	−19 58 40.8	97.8	1.317720	0 26	4 11
22	20 23 26.26	29.17	19 57 3.0	98.1	1.317761	0 19	4 11
24	20 23 55.43	29.15	19 55 24.9	98.3	1.317779	0 11	4 12
26	20 24 24.58	29.11	19 53 46.6	98.3	1.317773	0 4	4 12
28	20 24 53.69	+29.04	19 52 8.3	+98.3	1.317743	23 56	4 12
30	20 25 22.73	28.96	−19 50 30.0	98.2	1.317690	23 49	4 12
Febr. 1	20 25 51.69	28.84	19 48 51.8	98.1	1.317613	23 42	4 12
3	20 26 20.53	28.70	19 47 13.7	97.7	1.317512	23 34	4 12
5	20 26 49.23	28.54	19 45 36.0	97.3	1.317388	23 27	4 13
7	20 27 17.77	+28.36	19 43 58.7	+97.0	1.317241	23 19	4 13
9	20 27 46.13	28.15	−19 42 21.7	96.5	1.317071	23 12	4 13
11	20 28 14.28	27.91	19 40 45.2	95.8	1.316877	23 5	4 13
13	20 28 42.19	27.65	19 39 9.4	95.0	1.316661	22 57	4 13
15	20 29 9.84	27.38	19 37 34.4	94.3	1.316422	22 50	4 13
17	20 29 37.22	+27.07	19 36 0.1	+93.4	1.316161	22 42	4 14
19	20 30 4.29	26.75	−19 34 26.7	92.4	1.315878	22 35	4 14
21	20 30 31.04	26.41	19 32 54.3	91.3	1.315574	22 27	4 14
23	20 30 57.45	26.04	19 31 23.0	90.3	1.315249	22 20	4 14
25	20 31 23.49	25.65	19 29 52.7	89.0	1.314902	22 13	4 14
27	20 31 49.14	+25.25	19 28 23.7	+87.6	1.314534	22 5	4 15
März 1	20 32 14.39	24.82	−19 26 56.1	86.2	1.314146	21 58	4 15
3	20 32 39.21	24.37	19 25 29.9	84.8	1.313739	21 50	4 15
5	20 33 3.58	23.90	19 24 5.1	83.2	1.313312	21 43	4 15
7	20 33 27.48	23.40	19 22 41.9	81.5	1.312865	21 35	4 15
9	20 33 50.88	+22.89	19 21 20.4	+79.8	1.312400	21 29	4 15
11	20 34 13.77	22.36	−19 20 0.6	77.9	1.311917	21 21	4 15
13	20 34 36.13	21.81	19 18 42.7	76.0	1.311415	21 13	4 16
15	20 34 57.94	21.24	19 17 26.7	74.0	1.310897	21 5	4 16
17	20 35 19.18	20.65	19 16 12.7	72.0	1.310363	20 58	4 16
19	20 35 39.83		19 15 0.7		1.309812	20 50	4 16

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
März 17	20 35 19.18	+20.65	−19 16 12.7	+72.0	1.310363	20 58	4 16
19	20 35 39.83	20.05	19 15 0.7	69.9	1.309812	20 50	4 16
21	20 35 59.88	19.44	19 13 50.8	67.7	1.309245	20 43	4 16
23	20 36 19.32	18.81	19 12 43.1	65.4	1.308664	20 35	4 16
25	20 36 38.13	+18.17	19 11 37.7	+63.2	1.308069	20 27	4 16
27	20 36 56.30	17.51	−19 10 34.5	60.8	1.307460	20 20	4 16
29	20 37 13.81	16.83	19 9 33.7	58.3	1.306837	20 12	4 17
31	20 37 30.64	16.15	19 8 35.4	55.8	1.306201	20 5	4 17
April 2	20 37 46.79	15.44	19 7 39.6	53.2	1.305554	19 57	4 17
4	20 38 2.23	+14.73	19 6 46.4	+50.7	1.304896	19 49	4 17
6	20 38 16.96	14.00	−19 5 55.7	48.0	1.304227	19 42	4 17
8	20 38 30.96	13.26	19 5 7.7	45.2	1.303548	19 34	4 17
10	20 38 44.22	12.50	19 4 22.5	42.3	1.302861	19 26	4 17
12	20 38 56.72	11.74	19 3 40.2	39.5	1.302165	19 19	4 17
14	20 39 8.46	+10.97	19 3 0.7	+36.7	1.301461	19 11	4 17
16	20 39 19.43	10.20	−19 2 24.0	33.8	1.300751	19 3	4 17
18	20 39 29.63	9.42	19 1 50.2	30.8	1.300035	18 56	4 17
20	20 39 39.05	8.63	19 1 19.4	27.9	1.299314	18 48	4 17
22	20 39 47.68	7.83	19 0 51.5	25.0	1.298588	18 40	4 17
24	20 39 55.51	+ 7.03	19 0 26.5	+22.0	1.297858	18 32	4 18
26	20 40 2.54	6.23	−19 0 4.5	18.9	1.297126	18 25	4 18
28	20 40 8.77	5.42	18 59 45.6	15.9	1.296392	18 17	4 18
30	20 40 14.19	4.61	18 59 29.7	12.8	1.295656	18 9	4 18
Mai 2	20 40 18.80	3.79	18 59 16.9	9.8	1.294919	18 1	4 18
4	20 40 22.59	+ 2.98	18 59 7.1	+ 6.7	1.294184	17 53	4 18
6	20 40 25.57	2.16	−18 59 0.4	3.6	1.293450	17 46	4 18
8	20 40 27.73	1.34	18 58 56.8	+ 0.5	1.292717	17 38	4 18
10	20 40 29.07	+ 0.53	18 58 56.3	− 2.5	1.291987	17 30	4 18
12	20 40 29.60	− 0.28	18 58 58.8	5.5	1.291262	17 22	4 18
14	20 40 29.32	− 1.08	18 59 4.3	− 8.5	1.290542	17 14	4 18
16	20 40 28.24	1.88	−18 59 12.8	11.6	1.289828	17 6	4 18
18	20 40 26.36	2.68	18 59 24.4	14.5	1.289120	16 58	4 18
20	20 40 23.68	3.46	18 59 38.9	17.4	1.288419	16 50	4 18
22	20 40 20.22	4.25	18 59 56.3	20.2	1.287727	16 42	4 18
24	20 40 15.97	− 5.02	19 0 16.5	−23.1	1.287043	16 35	4 18
26	20 40 10.95	5.78	−19 0 39.6	25.9	1.286369	16 27	4 18
28	20 40 5.17	6.53	19 1 5.5	28.7	1.285706	16 19	4 17
30	20 39 58.64	7.28	19 1 34.2	31.4	1.285055	16 11	4 17
Juni 1	20 39 51.36	8.01	19 2 5.6	34.1	1.284416	16 2	4 17
3	20 39 43.35		19 2 39.7		1.283790	15 54	4 17

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	s	° ′ ″	″		h m	h m
Juni 1	20 39 51.36	− 8.01	−19 2 5.6	−34.1	1.284416	16 2	4 17
3	20 39 43.35	8.73	19 2 39.7	36.7	1.283790	15 54	4 17
5	20 39 34.62	9.44	19 3 16.4	39.2	1.283179	15 46	4 17
7	20 39 25.18	10.12	19 3 55.6	41.7	1.282582	15 38	4 17
9	20 39 15.06	−10.80	19 4 37.3	−44.1	1.282000	15 30	4 17
11	20 39 4.26	11.44	−19 5 21.4	46.4	1.281435	15 22	4 17
13	20 38 52.82	12.07	19 6 7.8	48.6	1.280888	15 14	4 17
15	20 38 40.75	12.68	19 6 56.4	50.7	1.280359	15 6	4 17
17	20 38 28.07	13.28	19 7 47.1	52.8	1.279848	14 58	4 17
19	20 38 14.79	−13.84	19 8 39.9	−54.7	1.279356	14 50	4 17
21	20 38 0.95	14.39	−19 9 34.6	56.5	1.278885	14 42	4 17
23	20 37 46.56	14.92	19 10 31.1	58.2	1.278434	14 34	4 16
25	20 37 31.64	15.43	19 11 29.3	59.9	1.278004	14 26	4 16
27	20 37 16.21	15.91	19 12 29.2	61.5	1.277596	14 17	4 16
29	20 37 0.30	−16.37	19 13 30.7	−63.0	1.277211	14 9	4 16
Juli 1	20 36 43.93	16.80	−19 14 33.7	64.4	1.276848	14 1	4 16
3	20 36 27.13	17.20	19 15 38.1	65.7	1.276509	13 53	4 16
5	20 36 9.93	17.58	19 16 43.8	66.7	1.276194	13 45	4 16
7	20 35 52.35	17.92	19 17 50.5	67.7	1.275904	13 36	4 16
9	20 35 34.43	−18.24	19 18 58.2	−68.7	1.275639	13 28	4 16
11	20 35 16.19	18.53	−19 20 6.9	69.5	1.275399	13 20	4 15
13	20 34 57.66	18.78	19 21 16.4	70.1	1.275185	13 12	4 15
15	20 34 38.88	19.01	19 22 26.5	70.6	1.274997	13 4	4 15
17	20 34 19.87	19.20	19 23 37.1	71.1	1.274835	12 56	4 15
19	20 34 0.67	−19.36	19 24 48.2	−71.4	1.274700	12 47	4 15
21	20 33 41.31	19.50	−19 25 59.6	71.5	1.274592	12 39	4 15
23	20 33 21.81	19.60	19 27 11.1	71.5	1.274511	12 31	4 15
25	20 33 2.21	19.67	19 28 22.6	71.6	1.274456	12 23	4 15
27	20 32 42.54	19.72	19 29 34.2	71.5	1.274428	12 15	4 14
29	20 32 22.82	−19.72	19 30 45.7	−71.1	1.274427	12 6	4 14
31	20 32 3.10	19.69	−19 31 56.8	70.8	1.274454	11 58	4 14
Aug. 2	20 31 43.41	19.62	19 33 7.6	70.3	1.274508	11 50	4 14
4	20 31 23.79	19.53	19 34 17.9	69.7	1.274589	11 42	4 14
6	20 31 4.26	19.40	19 35 27.6	68.9	1.274698	11 34	4 14
8	20 30 44.86	−19.24	19 36 36.5	−68.1	1.274834	11 25	4 14
10	20 30 25.62	19.05	−19 37 44.6	67.1	1.274996	11 17	4 13
12	20 30 6.57	18.84	19 38 51.7	66.0	1.275185	11 9	4 13
14	20 29 47.73	18.58	19 39 57.7	64.8	1.275401	11 1	4 13
16	20 29 29.15	18.29	19 41 2.5	63.5	1.275642	10 52	4 13
18	20 29 10.86		19 42 6.0		1.275909	10 44	4 13

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Aug. 16	20 29 29.15	−18.29	−19 41 2.5	−63.5	1.275642	10 52	4 13
18	20 29 10.86	17.98	19 42 6.0	62.2	1.275909	10 44	4 13
20	20 28 52.88	17.64	19 43 8.2	60.8	1.276202	10 36	4 13
22	20 28 35.24	17.27	19 44 9.0	59.1	1.276520	10 28	4 13
24	20 28 17.97	−16.87	19 45 8.1	−57.5	1.276862	10 20	4 13
26	20 28 1.10	16.43	−19 46 5.6	55.9	1.277228	10 12	4 13
28	20 27 44.67	15.97	19 47 1.5	54.0	1.277618	10 3	4 12
30	20 27 28.70	15.49	19 47 55.5	52.0	1.278032	9 55	4 12
Sept. 1	20 27 13.21	14.97	19 48 47.5	50.1	1.278468	9 47	4 12
3	20 26 58.24	−14.42	19 49 37.6	−48.1	1.278926	9 39	4 12
5	20 26 43.82	13.86	−19 50 25.7	45.9	1.279406	9 31	4 12
7	20 26 29.96	13.27	19 51 11.6	43.6	1.279907	9 23	4 12
9	20 26 16.69	12.66	19 51 55.2	41.4	1.280427	9 15	4 12
11	20 26 4.03	12.03	19 52 36.6	39.0	1.280966	9 7	4 12
13	20 25 52.00	−11.38	19 53 15.6	−36.6	1.281524	8 59	4 12
15	20 25 40.62	10.70	−19 53 52.2	34.2	1.282100	8 50	4 12
17	20 25 29.92	10.01	19 54 26.4	31.7	1.282693	8 42	4 12
19	20 25 19.91	9.31	19 54 58.1	29.2	1.283302	8 34	4 12
21	20 25 10.60	8.58	19 55 27.3	26.6	1.283927	8 26	4 12
23	20 25 2.02	− 7.84	19 55 53.9	−24.0	1.284567	8 18	4 12
25	20 24 54.18	7.09	−19 56 17.9	21.3	1.285220	8 10	4 11
27	20 24 47.09	6.31	19 56 39.2	18.6	1.285887	8 2	4 11
29	20 24 40.78	5.53	19 56 57.8	15.8	1.286567	7 54	4 11
Okt. 1	20 24 35.25	4.73	19 57 13.6	13.0	1.287258	7 46	4 11
3	20 24 30.52	− 3.93	19 57 26.6	−10.3	1.287959	7 38	4 11
5	20 24 26.59	3.11	−19 57 36.9	7.5	1.288670	7 30	4 11
7	20 24 23.48	2.28	19 57 44.4	4.6	1.289390	7 22	4 11
9	20 24 21.20	1.46	19 57 49.0	− 1.7	1.290118	7 15	4 11
11	20 24 19.74	− 0.62	19 57 50.7	+ 1.2	1.290852	7 7	4 11
13	20 24 19.12	+ 0.21	19 57 49.5	+ 4.0	1.291592	6 59	4 11
15	20 24 19.33	1.05	−19 57 45.5	6.9	1.292336	6 51	4 11
17	20 24 20.38	1.90	19 57 38.6	9.8	1.293085	6 43	4 11
19	20 24 22.28	2.74	19 57 28.8	12.6	1.293837	6 35	4 11
21	20 24 25.02	3.59	19 57 16.2	15.5	1.294591	6 27	4 11
23	20 24 28.61	+ 4.43	19 57 0.7	+18.4	1.295348	6 19	4 11
25	20 24 33.04	5.28	−19 56 42.3	21.3	1.296106	6 12	4 11
27	20 24 38.32	6.12	19 56 21.0	24.2	1.296863	6 4	4 11
29	20 24 44.44	6.95	19 55 56.8	27.0	1.297618	5 56	4 12
31	20 24 51.39	7.79	19 55 29.8	29.9	1.298372	5 48	4 12
Nov. 2	20 24 59.18		19 54 59.9		1.299123	5 41	4 12

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	s	° ′ ″	″		h m	h m
Okt. 31	20 24 51.39	+ 7.79	−19 55 29.8	+29.9	1.298372	5 48	4 12
Nov. 2	20 24 59.18	8.61	19 54 59.9	32.7	1.299123	5 41	4 12
4	20 25 7.79	9.44	19 54 27.2	35.5	1.299870	5 33	4 12
6	20 25 17.23	10.25	19 53 51.7	38.4	1.300612	5 25	4 12
8	20 25 27.48	+11.05	19 53 13.3	+41.1	1.301349	5 17	4 12
10	20 25 38.53	11.85	−19 52 32.2	43.8	1.302079	5 10	4 12
12	20 25 50.38	12.63	19 51 48.4	46.4	1.302802	5 2	4 12
14	20 26 3.01	13.39	19 51 2.0	49.1	1.303517	4 54	4 12
16	20 26 16.40	14.15	19 50 12.9	51.8	1.304223	4 47	4 12
18	20 26 30.55	+14.90	19 49 21.1	+54.3	1.304920	4 39	4 12
20	20 26 45.45	15.63	−19 48 26.8	56.9	1.305606	4 31	4 12
22	20 27 1.08	16.36	19 47 29.9	59.4	1.306282	4 24	4 12
24	20 27 17.44	17.06	19 46 30.5	61.9	1.306947	4 16	4 13
26	20 27 34.50	17.75	19 45 28.6	64.3	1.307600	4 8	4 13
28	20 27 52.25	+18.42	19 44 24.3	+66.8	1.308239	4 1	4 13
30	20 28 10.67	19.07	−19 43 17.5	69.1	1.308864	3 53	4 13
Dez. 2	20 28 29.74	19.71	19 42 8.4	71.4	1.309475	3 46	4 13
4	20 28 49.45	20.33	19 40 57.0	73.6	1.310071	3 38	4 13
6	20 29 9.78	20.92	19 39 43.4	75.8	1.310651	3 31	4 13
8	20 29 30.70	+21.50	19 38 27.6	+77.9	1.311214	3 23	4 13
10	20 29 52.20	22.06	−19 37 9.7	79.9	1.311761	3 16	4 14
12	20 30 14.26	22.59	19 35 49.8	81.9	1.312291	3 8	4 14
14	20 30 36.85	23.11	19 34 27.9	83.8	1.312803	3 1	4 14
16	20 30 59.96	23.61	19 33 4.1	85.8	1.313296	2 53	4 14
18	20 31 23.57	+24.09	19 31 38.3	+87.6	1.313771	2 46	4 14
20	20 31 47.66	24.55	−19 30 10.7	89.3	1.314227	2 38	4 14
22	20 32 12.21	24.98	19 28 41.4	90.9	1.314663	2 31	4 15
24	20 32 37.19	25.39	19 27 10.5	92.6	1.315080	2 23	4 15
26	20 33 2.58	25.78	19 25 37.9	94.2	1.315476	2 16	4 15
28	20 33 28.36	+26.16	19 24 3.7	+95.6	1.315851	2 8	4 15
30	20 33 54.52	26.49	−19 22 28.1	97.0	1.316204	2 1	4 15
32	20 34 21.01	26.82	19 20 51.1	98.4	1.316535	1 53	4 15
34	20 34 47.83		19 19 12.7		1.316845	1 46	4 16

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Jan. 0	7 47 31.86	−13.70	+20 37 48.4	+35.9	1.462872	13 10	8 2
2	7 47 18.16	13.83	20 38 24.3	36.4	1.462742	13 1	8 2
4	7 47 4.33	13.97	20 39 0.7	36.8	1.462630	12 53	8 2
6	7 46 50.36	14.09	20 39 37.5	37.0	1.462537	12 45	8 2
8	7 46 36.27	−14.17	20 40 14.5	+37.2	1.462462	12 37	8 2
10	7 46 22.10	14.22	+20 40 51.7	37.3	1.462406	12 29	8 2
12	7 46 7.88	14.26	20 41 29.0	37.4	1.462368	12 21	8 3
14	7 45 53.62	14.27	20 42 6.4	37.5	1.462349	12 13	8 3
16	7 45 39.35	14.26	20 42 43.9	37.4	1.462349	12 5	8 3
18	7 45 25.09	−14.22	20 43 21.3	+37.3	1.462368	11 56	8 3
20	7 45 10.87	14.16	+20 43 58.6	37.2	1.462405	11 48	8 3
22	7 44 56.71	14.08	20 44 35.8	37.0	1.462461	11 40	8 3
24	7 44 42.63	13.98	20 45 12.8	36.7	1.462535	11 32	8 3
26	7 44 28.65	13.85	20 45 49.5	36.4	1.462628	11 24	8 3
28	7 44 14.80	−13.70	20 46 25.9	+36.0	1.462739	11 16	8 3
30	7 44 1.10	13.53	+20 47 1.9	35.6	1.462868	11 8	8 3
Febr. 1	7 43 47.57	13.34	20 47 37.5	35.1	1.463014	11 0	8 3
3	7 43 34.23	13.12	20 48 12.6	34.6	1.463179	10 51	8 3
5	7 43 21.11	12.88	20 48 47.2	34.0	1.463361	10 43	8 3
7	7 43 8.23	−12.63	20 49 21.2	+33.4	1.463560	10 35	8 3
9	7 42 55.60	12.35	+20 49 54.6	32.8	1.463776	10 27	8 3
11	7 42 43.25	12.04	20 50 27.4	32.0	1.464009	10 19	8 4
13	7 42 31.21	11.72	20 50 59.4	31.2	1.464257	10 11	8 4
15	7 42 19.49	11.39	20 51 30.6	30.4	1.464521	10 3	8 4
17	7 42 8.10	−11.03	20 52 1.0	+29.6	1.464800	9 55	8 4
19	7 41 57.07	10.65	+20 52 30.6	28.6	1.465094	9 47	8 4
21	7 41 46.42	10.27	20 52 59.2	27.7	1.465403	9 39	8 4
23	7 41 36.15	9.86	20 53 26.9	26.7	1.465725	9 31	8 4
25	7 41 26.29	9.44	20 53 53.6	25.7	1.466062	9 23	8 4
27	7 41 16.85	−9.01	20 54 19.3	+24.6	1.466412	9 14	8 4
März 1	7 41 7.84	8.56	+20 54 43.9	23.6	1.466774	9 6	8 4
3	7 40 59.28	8.10	20 55 7.5	22.5	1.467148	8 58	8 4
5	7 40 51.18	7.62	20 55 30.0	21.4	1.467535	8 50	8 4
7	7 40 43.56	7.14	20 55 51.4	20.2	1.467933	8 42	8 4
9	7 40 36.42	−6.64	20 56 11.6	+19.0	1.468340	8 34	8 4
11	7 40 29.78	6.13	+20 56 30.6	17.8	1.468757	8 26	8 4
13	7 40 23.65	5.61	20 56 48.4	16.6	1.469184	8 18	8 4
15	7 40 18.04	5.09	20 57 5.0	15.3	1.469620	8 11	8 4
17	7 40 12.95	4.55	20 57 20.3	14.1	1.470063	8 3	8 4
19	7 40 8.40		20 57 34.4		1.470514	7 55	8 4

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
März 17	7 40 12.95	− 4.55	+20 57 20.3	+14.1	1.470063	8 3	8 4
19	7 40 8.40	4.02	20 57 34.4	12.8	1.470514	7 55	8 4
21	7 40 4.38	3.47	20 57 47.2	11.6	1.470971	7 47	8 4
23	7 40 0.91	2.91	20 57 58.8	10.2	1.471435	7 39	8 4
25	7 39 58.00	− 2.36	20 58 9.0	+ 8.9	1.471904	7 31	8 4
27	7 39 55.64	1.81	+20 58 17.9	7.7	1.472379	7 23	8 4
29	7 39 53.83	1.24	20 58 25.6	6.3	1.472859	7 15	8 4
31	7 39 52.59	0.67	20 58 31.9	4.9	1.473343	7 7	8 4
April 2	7 39 51.92	− 0.11	20 58 36.8	3.5	1.473830	6 59	8 5
4	7 39 51.81	+ 0.46	20 58 40.3	+ 2.2	1.474320	6 51	8 5
6	7 39 52.27	1.04	+20 58 42.5	+ 0.8	1.474812	6 43	8 5
8	7 39 53.31	1.60	20 58 43.3	− 0.5	1.475306	6 35	8 5
10	7 39 54.91	2.17	20 58 42.8	1.9	1.475800	6 28	8 5
12	7 39 57.08	2.73	20 58 40.9	3.3	1.476295	6 20	8 5
14	7 39 59.81	+ 3.30	20 58 37.6	− 4.6	1.476790	6 12	8 5
16	7 40 3.11	3.86	+20 58 33.0	6.0	1.477284	6 4	8 4
18	7 40 6.97	4.42	20 58 27.0	7.3	1.477776	5 56	8 4
20	7 40 11.39	4.96	20 58 19.7	8.7	1.478266	5 48	8 4
22	7 40 16.35	5.51	20 58 11.0	10.0	1.478755	5 41	8 4
24	7 40 21.86	+ 6.04	20 58 1.0	−11.3	1.479241	5 33	8 4
26	7 40 27.90	6.58	+20 57 49.7	12.6	1.479723	5 25	8 4
28	7 40 34.48	7.11	20 57 37.1	13.9	1.480200	5 17	8 4
30	7 40 41.59	7.63	20 57 23.2	15.3	1.480673	5 10	8 4
Mai 2	7 40 49.22	8.15	20 57 7.9	16.6	1.481141	5 2	8 4
4	7 40 57.37	+ 8.65	20 56 51.3	−17.8	1.481604	4 54	8 4
6	7 41 6.02	9.15	+20 56 33.5	19.1	1.482061	4 46	8 4
8	7 41 15.17	9.64	20 56 14.4	20.4	1.482511	4 38	8 4
10	7 41 24.81	10.13	20 55 54.0	21.6	1.482954	4 31	8 4
12	7 41 34.94	10.60	20 55 32.4	22.8	1.483389	4 23	8 4
14	7 41 45.54	+11.05	20 55 9.6	−23.9	1.483817	4 15	8 4
16	7 41 56.59	11.50	+20 54 45.7	25.1	1.484237	4 8	8 4
18	7 42 8.09	11.93	20 54 20.6	26.3	1.484648	4 0	8 4
20	7 42 20.02	12.35	20 53 54.3	27.4	1.485049	3 52	8 4
22	7 42 32.37	12.76	20 53 26.9	28.5	1.485441	3 45	8 4
24	7 42 45.13	+13.16	20 52 58.4	−29.6	1.485823	3 37	8 4
26	7 42 58.29	13.56	+20 52 28.8	30.7	1.486195	3 29	8 4
28	7 43 11.85	13.93	20 51 58.1	31.8	1.486557	3 22	8 4
30	7 43 25.78	14.30	20 51 26.3	32.8	1.486907	3 14	8 4
Juni 1	7 43 40.08	14.65	20 50 53.5	33.9	1.487247	3 6	8 4
3	7 43 54.73		20 50 19.6		1.487575	2 59	8 4

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Juni 1	7 43 40.08	+14.65	+20 50 53.5	−33.9	1.487247	3 6	8 4
3	7 43 54.73	15.00	20 50 19.6	34.8	1.487575	2 59	8 4
5	7 44 9.73	15.32	20 49 44.8	35.7	1.487891	2 51	8 3
7	7 44 25.05	15.63	20 49 9.1	36.7	1.488194	2 43	8 3
9	7 44 40.68	+15.93	20 48 32.4	−37.5	1.488485	2 36	8 3
11	7 44 56.61	16.21	+20 47 54.9	38.4	1.488763	2 28	8 3
13	7 45 12.82	16.47	20 47 16.5	39.2	1.489028	2 21	8 3
15	7 45 29.29	16.73	20 46 37.3	40.0	1.489280	2 13	8 3
17	7 45 46.02	16.96	20 45 57.3	40.8	1.489519	2 5	8 3
19	7 46 2.98	+17.19	20 45 16.5	−41.5	1.489744	1 58	8 3
21	7 46 20.17	17.40	+20 44 35.0	42.2	1.489955	1 50	8 3
23	7 46 37.57	17.59	20 43 52.8	42.8	1.490152	1 43	8 3
25	7 46 55.16	17.77	20 43 10.0	43.5	1.490335	1 35	8 3
27	7 47 12.93	17.94	20 42 26.5	44.1	1.490504	1 27	8 3
29	7 47 30.87	+18.08	20 41 42.4	−44.7	1.490658	1 20	8 3
Juli 1	7 47 48.95	18.22	+20 40 57.7	45.2	1.490797	1 12	8 2
3	7 48 7.17	18.34	20 40 12.5	45.7	1.490922	1 5	8 2
5	7 48 25.51	18.44	20 39 26.8	46.1	1.491032	0 57	8 2
7	7 48 43.95	18.53	20 38 40.7	46.6	1.491126	0 49	8 2
9	7 49 2.48	+18.60	20 37 54.1	−47.0	1.491205	0 41	8 2
11	7 49 21.08	18.65	+20 37 7.1	47.3	1.491269	0 34	8 2
13	7 49 39.73	18.70	20 36 19.8	47.5	1.491318	0 27	8 2
15	7 49 58.43	18.72	20 35 32.3	47.8	1.491352	0 19	8 2
17	7 50 17.15	18.73	20 34 44.5	48.1	1.491370	0 11	8 2
19	7 50 35.88	+18.72	20 33 56.4	−48.2	1.491373	0 4	8 2
21	7 50 54.60	18.70	+20 33 8.2	48.3	1.491361	23 56	8 2
23	7 51 13.30	18.66	20 32 19.9	48.4	1.491334	23 49	8 1
25	7 51 31.96	18.61	20 31 31.5	48.6	1.491291	23 41	8 1
27	7 51 50.57	18.53	20 30 42.9	48.5	1.491233	23 34	8 1
29	7 52 9.10	+18.45	20 29 54.4	−48.5	1.491160	23 26	8 1
31	7 52 27.55	18.35	+20 29 5.9	48.4	1.491071	23 19	8 1
Aug. 2	7 52 45.90	18.23	20 28 17.5	48.3	1.490967	23 11	8 1
4	7 53 4.13	18.10	20 27 29.2	48.1	1.490848	23 3	8 1
6	7 53 22.23	17.94	20 26 41.1	47.8	1.490714	22 56	8 1
8	7 53 40.17	+17.78	20 25 53.3	−47.5	1.490565	22 48	8 1
10	7 53 57.95	17.59	+20 25 5.8	47.3	1.490402	22 41	8 1
12	7 54 15.54	17.39	20 24 18.5	46.9	1.490224	22 33	8 1
14	7 54 32.93	17.19	20 23 31.6	46.5	1.490031	22 25	8 0
16	7 54 50.12	16.96	20 22 45.1	46.0	1.489824	22 18	8 0
18	7 55 7.08		20 21 59.1		1.489604	22 10	8 0

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff.	Dekl. ° ′ ″	Diff.	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Aug. 16	7 54 50.12	+16.96	+20 22 45.1	−46.0	1.489824	22 18	8 0
18	7 55 7.08	16.73	20 21 59.1	45.6	1.489604	22 10	8 0
20	7 55 23.81	16.48	20 21 13.5	45.0	1.489370	22 3	8 0
22	7 55 40.29	16.21	20 20 28.5	44.4	1.489122	21 55	8 0
24	7 55 56.50	+15.93	20 19 44.1	−43.8	1.488861	21 47	8 0
26	7 56 12.43	15.63	+20 19 0.3	43.1	1.488586	21 40	8 0
28	7 56 28.06	15.32	20 18 17.2	42.5	1.488298	21 32	8 0
30	7 56 43.38	15.00	20 17 34.7	41.6	1.487997	21 25	8 0
Sept. 1	7 56 58.38	14.66	20 16 53.1	40.8	1.487684	21 17	8 0
3	7 57 13.04	+14.30	20 16 12.3	−40.0	1.487359	21 9	8 0
5	7 57 27.34	13.93	+20 15 32.3	39.1	1.487021	21 2	8 0
7	7 57 41.27	13.54	20 14 53.2	38.1	1.486672	20 54	7 59
9	7 57 54.81	13.16	20 14 15.1	37.1	1.486312	20 46	7 59
11	7 58 7.97	12.75	20 13 38.0	36.0	1.485941	20 39	7 59
13	7 58 20.72	+12.34	20 13 2.0	−35.0	1.485560	20 31	7 59
15	7 58 33.06	11.92	+20 12 27.0	33.9	1.485169	20 23	7 59
17	7 58 44.98	11.47	20 11 53.1	32.7	1.484768	20 16	7 59
19	7 58 56.45	11.03	20 11 20.4	31.6	1.484358	20 8	7 59
21	7 59 7.48	10.57	20 10 48.8	30.4	1.483938	20 0	7 59
23	7 59 18.05	+10.10	20 10 18.4	−29.1	1.483510	19 52	7 59
25	7 59 28.15	9.63	+20 9 49.3	27.8	1.483074	19 45	7 59
27	7 59 37.78	9.13	20 9 21.5	26.5	1.482630	19 37	7 59
29	7 59 46.91	8.63	20 8 55.0	25.1	1.482179	19 29	7 59
Okt. 1	7 59 55.54	8.11	20 8 29.9	23.6	1.481721	19 22	7 59
3	8 0 3.65	+ 7.60	20 8 6.3	−22.2	1.481257	19 14	7 59
5	8 0 11.25	7.08	+20 7 44.1	20.8	1.480787	19 6	7 59
7	8 0 18.33	6.54	20 7 23.3	19.2	1.480311	18 58	7 59
9	8 0 24.87	6.01	20 7 4.1	17.7	1.479831	18 50	7 59
11	8 0 30.88	5.46	20 6 46.4	16.2	1.479348	18 43	7 59
13	8 0 36.34	+ 4.92	20 6 30.2	−14.7	1.478861	18 35	7 58
15	8 0 41.26	4.37	+20 6 15.5	13.1	1.478370	18 27	7 58
17	8 0 45.63	3.81	20 6 2.4	11.5	1.477877	18 19	7 58
19	8 0 49.44	3.25	20 5 50.9	10.0	1.477382	18 11	7 58
21	8 0 52.69	2.69	20 5 40.9	8.4	1.476886	18 4	7 58
23	8 0 55.38	+ 2.12	20 5 32.5	− 6.7	1.476389	17 56	7 58
25	8 0 57.50	1.55	+20 5 25.8	5.0	1.475891	17 48	7 58
27	8 0 59.05	0.98	20 5 20.8	3.4	1.475394	17 40	7 58
29	8 1 0.03	+ 0.40	20 5 17.4	1.8	1.474898	17 32	7 58
31	8 1 0.43	− 0.18	20 5 15.6	− 0.1	1.474403	17 24	7 58
Nov. 2	8 1 0.25		20 5 15.5		1.473911	17 17	7 58

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	s	° ′ ″	″		h m	h m
Okt. 31	8 1 0.43	− 0.18	+20 5 15.6	− 0.1	1.474403	17 24	7 58
Nov. 2	8 1 0.25	0.74	20 5 15.5	+ 1.6	1.473911	17 17	7 58
4	8 0 59.51	1.30	20 5 17.1	3.2	1.473422	17 9	7 58
6	8 0 58.21	1.87	20 5 20.3	4.9	1.472937	17 1	7 58
8	8 0 56.34	− 2.43	20 5 25.2	+ 6.5	1.472454	16 53	7 58
10	8 0 53.91	2.99	+20 5 31.7	8.1	1.471977	16 45	7 58
12	8 0 50.92	3.53	20 5 39.8	9.7	1.471506	16 37	7 58
14	8 0 47.39	4.07	20 5 49.5	11.3	1.471040	16 29	7 58
16	8 0 43.32	4.61	20 6 0.8	12.9	1.470580	16 21	7 58
18	8 0 38.71	− 5.15	20 6 13.7	+14.4	1.470127	16 13	7 58
20	8 0 33.56	5.68	+20 6 28.1	15.9	1.469683	16 5	7 58
22	8 0 27.88	6.19	20 6 44.0	17.4	1.469247	15 57	7 59
24	8 0 21.69	6.70	20 7 1.4	19.0	1.468819	15 49	7 59
26	8 0 14.99	7.20	20 7 20.4	20.4	1.468401	15 41	7 59
28	8 0 7.79	− 7.68	20 7 40.8	+21.8	1.467994	15 33	7 59
30	8 0 0.11	8.16	+20 8 2.6	23.2	1.467598	15 25	7 59
Dez. 2	7 59 51.95	8.62	20 8 25.8	24.5	1.467212	15 17	7 59
4	7 59 43.33	9.06	20 8 50.3	25.8	1.466838	15 9	7 59
6	7 59 34.27	9.49	20 9 16.1	27.0	1.466477	15 1	7 59
8	7 59 24.78	− 9.90	20 9 43.1	+28.3	1.466129	14 53	7 59
10	7 59 14.88	10.30	+20 10 11.4	29.4	1.465794	14 45	7 59
12	7 59 4.58	10.69	20 10 40.8	30.5	1.465473	14 37	7 59
14	7 58 53.89	11.05	20 11 11.3	31.5	1.465166	14 29	7 59
16	7 58 42.84	11.41	20 11 42.8	32.6	1.464874	14 21	7 59
18	7 58 31.43	−11.74	20 12 15.4	+33.5	1.464596	14 13	7 59
20	7 58 19.69	12.05	+20 12 48.9	34.4	1.464334	14 5	7 59
22	7 58 7.64	12.35	20 13 23.3	35.2	1.464089	13 57	7 59
24	7 57 55.29	12.62	20 13 58.5	36.0	1.463860	13 48	7 59
26	7 57 42.67	12.87	20 14 34.5	36.8	1.463647	13 40	7 59
28	7 57 29.80	−13.10	20 15 11.3	+37.4	1.463451	13 32	7 59
30	7 57 16.70	13.32	+20 15 48.7	38.0	1.463273	13 24	8 0
32	7 57 3.38	13.51	20 16 26.7	38.4	1.463113	13 16	8 0
34	7 56 49.87		20 17 5.1		1.462970	13 8	8 0

MERKUR 1913.

Mittlere Ekliptik und Äquinoktium 1910.0.

0^h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite	0^h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite
Jan. 1	9.6144	194° 51′	+12′	+3° 45′	Juli 5	9.6523	224° 5′	+1′	+0° 23′
6	9.6380	211 36	+7	+1 53	10	9.6638	238 32	−5	−1 22
11	9.6550	226 51	0	+0 3	15	9.6688	252 27	−10	−2 58
16	9.6653	241 10	−6	−1 41	20	9.6673	266 15	−13	−4 24
21	9.6690	255 2	−11	−3 15	25	9.6592	280 22	−12	−5 36
26	9.6662	268 52	−13	−4 39	30	9.6445	295 14	−9	−6 29
31	9.6569	283 5	−12	−5 47	Aug. 4	9.6230	311 25	−3	−6 58
Febr. 5	9.6410	298 10	−8	−6 37	9	9.5952	329 32	+5	−6 51
10	9.6183	314 39	−1	−7 0	14	9.5624	350 24	+12	−5 52
15	9.5894	333 13	+7	−6 44	19	9.5281	14 48	+12	−3 45
20	9.5559	354 41	+12	−5 33	24	9.5000	43 4	+2	−0 31
25	9.5221	19 49	+11	−3 13	29	9.4879	74 11	−10	+3 10
März 2	9.4962	48 45	−1	+0 11	Sept. 3	9.4975	105 28	−12	+5 57
7	9.4880	80 8	−12	+3 48	8	9.5243	134 10	−1	+7 0
12	9.5015	111 7	−10	+6 17	13	9.5583	159 1	+9	+6 30
17	9.5304	139 8	+1	+7 0	18	9.5916	180 16	+13	+5 7
22	9.5647	163 16	+10	+6 17	23	9.6201	198 40	+11	+3 21
27	9.5973	183 55	+13	+4 48	28	9.6423	215 2	+5	+1 29
April 1	9.6247	201 53	+10	+3 0	Okt. 3	9.6578	230 2	−1	−0 20
6	9.6457	217 56	+4	+1 8	8	9.6665	244 13	−7	−2 2
11	9.6600	232 45	−2	−0 40	13	9.6690	258 3	−11	−3 35
16	9.6676	246 50	−8	−2 20	18	9.6648	271 55	−13	−4 55
21	9.6687	260 38	−12	−3 51	23	9.6540	286 17	−11	−6 0
26	9.6633	274 34	−13	−5 8	28	9.6366	301 37	−7	−6 45
Mai 1	9.6513	289 5	−11	−6 10	Nov. 2	9.6125	318 30	+1	−7 0
6	9.6326	304 39	−6	−6 50	7	9.5823	337 38	+8	−6 34
11	9.6073	321 53	+2	−6 59	12	9.5483	359 51	+13	−5 9
16	9.5762	341 32	+10	−6 23	17	9.5154	25 50	+9	−2 33
21	9.5418	4 25	+13	−4 45	22	9.4926	55 29	−4	+1 0
26	9.5100	31 9	+7	−1 56	27	9.4892	87 3	−13	+4 29
31	9.4903	61 21	−6	+1 42	Dez. 2	9.5068	117 33	−8	+6 35
Juni 5	9.4910	92 56	−13	+5 0	7	9.5377	144 44	+3	+6 57
10	9.5119	122 56	−6	+6 47	12	9.5722	168 3	+11	+6 1
15	9.5442	149 24	+5	+6 51	17	9.6038	188 2	+13	+4 25
20	9.5784	172 2	+12	+5 45	22	9.6300	205 32	+9	+2 35
25	9.6092	191 29	+12	+4 5	27	9.6494	221 16	+3	+0 44
30	9.6341	208 36	+8	+2 14	32	9.6622	235 52	−4	−1 3
Juli 5	9.6523	224 5	+1	+0 23	37	9.6684	249 51	−9	−2 41

$☊ = 47°\ 15'.6; \quad i = 7°\ 0'.17; \quad m = \frac{1}{6000000}$

VENUS 1913.						ERDE 1913.	
Mittl. Ekliptik und Äquin. 1910.0.						Mittl. Äqu. 1910.0.	
0h Mittl. Zeit	Log. Radius v.	Länge in der Bahn	Red. auf d. Eklipt.	Breite		Log. Radius vect.	Länge
Jan. −4	9.86021	22° 36.7	+2.9	−2° 43.1		9.99268	95° 19.7
6	9.85940	38 35.9	+2.9	−2 3.2		9.99268	105 31.3
16	9.85858	54 38.6	+2.0	−1 13.7		9.99287	115 42.8
26	9.85782	70 45.0	+0.5	−0 18.1		9.99329	125 53.1
Febr. 5	9.85717	86 54.5	−1.1	+0 39.0		9.99394	136 2.1
15	9.85670	103 6.5	−2.5	+1 33.2		9.99474	146 9.2
25	9.85642	119 20.2	−3.0	+2 20.1		9.99570	156 13.5
März 7	9.85638	135 34.6	−2.6	+2 55.8		9.99682	166 15.1
17	9.85658	151 48.7	−1.4	+3 17.5		9.99798	176 13.7
27	9.85699	168 1.4	+0.2	+3 23.5		9.99922	186 8.6
April 6	9.85758	184 11.9	+1.8	+3 13.3		0.00049	196 0.4
16	9.85831	200 19.4	+2.8	+2 47.8		0.00170	205 48.8
26	9.85912	216 23.4	+3.0	+2 9.4		0.00287	215 33.7
Mai 6	9.85994	232 23.8	+2.2	+1 21.0		0.00397	225 15.8
16	9.86072	248 20.7	+0.8	+0 26.6		0.00492	234 55.1
26	9.86138	264 14.3	−0.9	−0 29.7		0.00574	244 31.9
Juni 5	9.86189	280 5.4	−2.3	−1 23.5		0.00641	254 6.9
15	9.86220	295 54.6	−3.0	−2 11.0		0.00685	263 40.5
25	9.86230	311 43.0	−2.8	−2 48.5		0.00713	273 12.8
Juli 5	9.86217	327 31.4	−1.8	−3 13.3		0.00722	282 44.9
15	9.86182	343 20.9	−0.3	−3 23.4		0.00707	292 17.1
25	9.86128	359 12.4	+1.4	−3 18.1		0.00674	301 49.6
Aug. 4	9.86058	15 6.6	+2.6	−2 57.6		0.00623	311 23.7
14	9.85979	31 4.0	+3.0	−2 23.4		0.00550	320 59.1
24	9.85896	47 5.1	+2.5	−1 38.0		0.00465	330 36.5
Sept. 3	9.85816	63 9.8	+1.3	−0 44.7		0.00366	340 16.8
13	9.85745	79 17.9	−0.3	+0 12.2		0.00253	349 59.6
23	9.85688	95 28.9	−1.9	+1 8.3		0.00135	359 45.5
Okt. 3	9.85650	111 42.1	−2.9	+1 59.2		0.00012	9 35.0
13	9.85635	127 56.4	−2.9	+2 40.6		9.99885	19 27.6
23	9.85643	144 10.9	−2.1	+3 9.2		9.99764	29 23.6
Nov. 2	9.85675	160 24.4	−0.6	+3 22.7		9.99649	39 23.1
12	9.85727	176 36.1	+1.1	+3 20.1		9.99541	49 25.5
22	9.85794	192 45.1	+2.4	+3 1.6		9.99450	59 30.6
Dez. 2	9.85872	208 50.9	+3.0	+2 28.9		9.99375	69 38.3
12	9.85955	224 53.0	+2.7	+1 44.7		9.99315	79 47.7
22	9.86036	240 51.5	+1.5	+0 52.7		9.99281	89 58.3
32	9.86109	256 46.6	−0.1	−0 3.3		9.99267	100 9.9

$☊ = 75° 51'.7$; $i = 3° 23'.6$; $m = \frac{1}{408000}$ $\qquad$ $m = \frac{1}{329390}$

MARS 1913.

Mittlere Ekliptik und Äquinoktium 1910.0.

0^h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite
Jan. −4	0.17565	249° 18.3	−0.6	−0° 38.8
6	0.17188	254 44.7	−0.7	−0 48.5
16	0.16815	260 17.0	−0.8	−0 57.9
26	0.16449	265 54.9	−0.9	−1 6.9
Febr. 5	0.16094	271 38.5	−0.9	−1 15.4
15	0.15754	277 27.6	−0.9	−1 23.3
25	0.15434	283 22.1	−0.8	−1 30.4
März 7	0.15138	289 21.6	−0.8	−1 36.6
17	0.14870	295 25.8	−0.7	−1 41.8
27	0.14633	301 34.3	−0.5	−1 46.0
April 6	0.14432	307 46.6	−0.3	−1 48.9
16	0.14270	314 1.9	−0.1	−1 50.6
26	0.14149	320 19.7	0.0	−1 51.0
Mai 6	0.14072	326 39.3	+0.2	−1 50.0
16	0.14039	332 59.8	+0.4	−1 47.7
26	0.14052	339 20.5	+0.6	−1 44.0
Juni 5	0.14110	345 40.5	+0.7	−1 39.0
15	0.14212	351 59.2	+0.8	−1 32.9
25	0.14357	358 15.7	+0.9	−1 25.8
Juli 5	0.14541	4 29.4	+0.9	−1 17.6
15	0.14762	10 39.6	+0.9	−1 8.6
25	0.15017	16 45.7	+0.8	−0 59.0
Aug. 4	0.15301	22 47.4	+0.7	−0 48.8
14	0.15611	28 44.1	+0.6	−0 38.2
24	0.15943	34 35.6	+0.4	−0 27.3
Sept. 3	0.16291	40 21.6	+0.3	−0 16.4
13	0.16652	46 2.0	+0.1	−0 5.5
23	0.17023	51 36.7	−0.1	+0 5.3
Okt. 3	0.17398	57 5.7	−0.3	+0 15.9
13	0.17775	62 29.1	−0.4	+0 26.2
23	0.18149	67 46.9	−0.5	+0 36.0
Nov. 2	0.18518	72 59.3	−0.7	+0 45.4
12	0.18880	78 6.5	−0.8	+0 54.2
22	0.19231	83 8.7	−0.8	+1 2.5
Dez. 2	0.19568	88 6.1	−0.9	+1 10.2
12	0.19891	92 59.1	−0.9	+1 17.3
22	0.20197	97 47.8	−0.9	+1 23.7
32	0.20485	102 32.6	−0.9	+1 29.4

$\Omega = 48° \; 51'.2; \quad i = 1° \; 51'.0; \quad m = \frac{1}{3093500}$

JUPITER 1913.

Mittlere Ekliptik und Äquinoktium 1910.0.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
		° ′ ″	″	° ′ ″	″
Jan. −4	0.720893	267 14 47.7	+11.2	+0 16 41.7	−1.4
6	0.720604	268 3 34.1	+10.5	+0 15 36.3	−1.5
16	0.720313	268 52 24.5	+ 9.8	+0 14 30.6	−1.5
26	0.720020	269 41 18.8	+ 9.1	+0 13 24.6	−1.6
Febr. 5	0.719727	270 30 17.0	+ 8.4	+0 12 18.4	−1.7
15	0.719433	271 19 19.2	+ 7.6	+0 11 11.9	−1.7
25	0.719138	272 8 25.4	+ 6.9	+0 10 5.2	−1.8
März 7	0.718841	272 57 35.6	+ 6.2	+0 8 58.3	−1.8
17	0.718544	273 46 49.9	+ 5.4	+0 7 51.2	−1.8
27	0.718245	274 36 8.3	+ 4.6	+0 6 44.0	−1.8
April 6	0.717946	275 25 30.7	+ 3.8	+0 5 36.6	−1.8
16	0.717646	276 14 57.2	+ 3.1	+0 4 29.0	−1.9
26	0.717346	277 4 27.8	+ 2.3	+0 3 21.2	−1.9
Mai 6	0.717045	277 54 2.6	+ 1.6	+0 2 13.2	−1.9
16	0.716743	278 43 41.5	+ 0.8	+0 1 5.1	−2.0
26	0.716441	279 33 24.5	0.0	−0 0 3.1	−2.0
Juni 5	0.716138	280 23 11.7	− 0.8	−0 1 11.3	−2.1
15	0.715835	281 13 3.1	− 1.6	−0 2 19.6	−2.1
25	0.715532	282 2 58.6	− 2.4	−0 3 28.0	−2.2
Juli 5	0.715228	282 52 58.4	− 3.2	−0 4 36.4	−2.2
15	0.714924	283 43 2.3	− 3.9	−0 5 44.9	−2.2
25	0.714620	284 33 10.4	− 4.7	−0 6 53.4	−2.2
Aug. 4	0.714315	285 23 22.7	− 5.4	−0 8 1.9	−2.2
14	0.714011	286 13 39.2	− 6.2	−0 9 10.4	−2.2
24	0.713707	287 4 0.0	− 7.0	−0 10 18.9	−2.3
Sept 3	0.713403	287 54 25.0	− 7.8	−0 11 27.4	−2.3
13	0.713099	288 44 54.2	− 8.5	−0 12 35.7	−2.4
23	0.712795	289 35 27.7	− 9.3	−0 13 44.0	−2.4
Okt. 3	0.712492	290 26 5.4	−10.0	−0 14 52.2	−2.5
13	0.712189	291 16 47.3	−10.7	−0 16 0.4	−2.6
23	0.711887	292 7 33.5	−11.4	−0 17 8.4	−2.7
Nov. 2	0.711585	292 58 23.9	−12.1	−0 18 16.3	−2.7
12	0.711283	293 49 18.5	−12.8	−0 19 24.0	−2.8
22	0.710983	294 40 17.4	−13.5	−0 20 31.6	−2.8
Dez. 2	0.710683	295 31 20.6	−14.2	−0 21 39.0	−2.8
12	0.710384	296 22 28.0	−14.9	−0 22 46.2	−2.8
22	0.710085	297 13 39.6	−15.6	−0 23 53.3	−2.8
32	0.709788	298 4 55.4	−16.2	−0 25 0.1	−2.8
42	0.709492	298 56 15.4	−16.8	−0 26 6.6	−2.9

$\Omega = 99^\circ\ 32'\ 41''.4;\quad i = 1^\circ\ 18'\ 29''.7;\quad m = \frac{1}{1047.355}$

Mittlere Ekliptik und Äquinoktium 1910.0.

SATURN 1913.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1912 Dez. 7	0.957975	61° 3′ 59.″8	+94.″9	−1° 57′ 32.″2	−2.″2
1913 Jan. 16	0.957685	62 32 30.5	+95.9	−1 55 7.1	−2.3
Febr. 25	0.957407	64 1 8.3	+96.7	−1 52 37.2	−2.4
April 6	0.957143	65 29 52.9	+97.2	−1 50 2.7	−2.4
Mai 16	0.956893	66 58 43.9	+97.5	−1 47 23.5	−2.5
Juni 25	0.956657	68 27 41.1	+97.5	−1 44 39.8	−2.5
Aug. 4	0.956435	69 56 44.1	+97.3	−1 41 51.8	−2.6
Sept. 13	0.956227	71 25 52.7	+96.8	−1 38 59.4	−2.6
Okt. 23	0.956034	72 55 6.5	+96.0	−1 36 2.9	−2.7
Dez. 2	0.955856	74 24 25.1	+95.0	−1 33 2.4	−2.7
42	0.955692	75 53 48.1	+93.7	−1 29 57.9	−2.7

$☊ = 112° 52' 26''.8; \quad i = 2° 29' 31''.3; \quad m = \frac{1}{3501.6}$

URANUS 1913.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1912 Dez. 7	1.296566	302° 56′ 34.″5	−9.″3	−0° 35′ 9.″7	+2.″9
1913 Jan. 16	1.296686	303 23 2.5	−9.2	−0 35 23.6	+2.9
Febr. 25	1.296804	303 49 29.7	−9.2	−0 35 37.4	+2.9
April 6	1.296922	304 15 56.1	−9.2	−0 35 51.0	+2.8
Mai 16	1.297038	304 42 21.7	−9.2	−0 36 4.5	+2.8
Juni 25	1.297154	305 8 46.6	−9.1	−0 36 17.8	+2.8
Aug. 4	1.297269	305 35 10.6	−9.1	−0 36 31.1	+2.8
Sept. 13	1.297382	306 1 33.9	−9.1	−0 36 44.2	+2.7
Okt. 23	1.297494	306 27 56.4	−9.0	−0 36 57.2	+2.7
Dez. 2	1.297604	306 54 18.1	−9.0	−0 37 10.0	+2.6
42	1.297713	307 20 39.1	−8.9	−0 37 22.7	+2.6

$☊ = 73° 32'; \quad i = 0° 46' 22''; \quad m = \frac{1}{22869}$

NEPTUN 1913.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1912 Dez. 7	1.476821	114° 20′ 17.″2	+27.″0	−0° 30′ 13.″5	−1.″3
1913 Jan. 16	1.476835	114 34 42.1	+26.6	−0 29 47.7	−1.3
Febr. 25	1.476849	114 49 6.8	+26.2	−0 29 21.9	−1.3
April 6	1.476863	115 3 31.5	+25.9	−0 28 56.0	−1.2
Mai 16	1.476877	115 17 56.1	+25.6	−0 28 30.2	−1.2
Juni 25	1.476892	115 32 20.6	+25.2	−0 28 4.3	−1.2
Aug. 4	1.476906	115 46 45.0	+24.8	−0 27 38.4	−1.2
Sept. 13	1.476921	116 1 9.4	+24.5	−0 27 12.4	−1.2
Okt. 23	1.476936	116 15 33.7	+24.1	−0 26 46.4	−1.2
Dez. 2	1.476952	116 29 57.9	+23.7	−0 26 20.4	−1.2
42	1.476967	116 44 22.0	+23.4	−0 25 54.4	−1.1

$☊ = 130° 47'; \quad i = 1° 46' 42''; \quad m = \frac{1}{19314}$

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
1	α Androm.	2.1	0 3 53.244	+3.0956	+ 107	+28 36 36.44	+19.882	− 161
2	β Cassiopejae	2.2	0 4 31.632	+3.1834	+ 675	+58 40 11.66	+19.862	− 180
3	ε Phoenicis	3.8	0 4 59.872	+3.0521	+ 99	−46 13 39.19	+19.849	− 192
4	[22 Androm.]	5.2	0 5 47.604	+3.1078	+ 8	+45 35 17.13	+20.036	− 3
5	[κ² Sculptoris]	5.5	0 7 9.460	+3.0505	+ 4	−28 17 4.11	+20.042	+ 6
6	[θ Sculptoris]	5.3	0 7 18.691	+3.0524	+ 104	−35 37 12.67	+20.160	+ 124
7	γ Pegasi	2.7	0 8 45.231	+3.0860	+ 1	+14 41 59.48	+20.017	− 14
8	[Br. 6]	6.5	0 11 16.662	+3.3525	+ 67	+76 28 2.50	+20.023	+ 2
9	ι Ceti	3.5	0 14 59.718	+3.0568	− 15	− 9 18 22.37	+19.971	− 32
10	ζ Tucanae	4.2	0 15 32.658	+3.1454	+2706	−65 23 10.13	+21.153	+1154
11	β Hydri	2.8	0 21 11.838	+3.2038	+6994	−77 44 39.09	+20.278	+ 318
12	α Phoenicis	2.3	0 21 59.127	+2.9709	+ 168	−42 46 42.78	+19.545	− 409
13	12 Ceti	6.1	0 25 35.934	+3.0618	+ 8	− 4 26 16.70	+19.913	− 8
14	[Ceti 49 G.]	5.3	0 26 1.737	+3.0017	− 25	−24 16 8.33	+19.926	+ 9
15	[λ¹ Phoenicis]	4.7	0 27 13.289	+2.9008	+ 123	−49 17 4.85	+19.916	+ 12
16	[κ Cassiop.]	4.2	0 28 2.680	+3.3864	+ 11	+62 27 6.32	+19.899	+ 3
17	ζ Cassiopejae	3.8	0 32 6.996	+3.3264	+ 23	+53 25 5.59	+19.842	− 7
18	π Androm.	4.2	0 32 13.814	+3.1970	+ 17	+33 14 25.92	+19.848	0
19	[ε Androm.]	4.3	0 33 57.277	+3.1639	− 173	+28 50 22.18	+19.575	− 251
20	δ Androm.	3.2	0 34 40.310	+3.2012	+ 106	+30 23 6.29	+19.733	− 84
21	α Cassiopejae	(2.2)	0 35 33.692	+3.3854	+ 60	+56 3 37.27	+19.776	− 29
22	β Ceti	2.2	0 39 13.381	+3.0126	+ 160	−18 27 50.49	+19.792	+ 39
23	[η Phoenicis]	4.3	0 39 26.926	+2.7076	+ 5	−57 56 24.97	+19.741	− 8
25	ο Cassiopejae	4.7	0 39 52.242	+3.3299	+ 22	+47 48 30.02	+19.735	− 8
24	21 Cassiopejae	5.8	0 39 52.846	+3.9019	− 57	+74 30 45.54	+19.720	− 23
26	[λ² Sculptoris]	5.9	0 39 59.743	+2.9031	+ 178	−38 54 3.56	+19.856	+ 115
27	ζ Androm.	4.1	0 42 43.432	+3.1743	− 75	+23 47 38.52	+19.620	− 79
28	[δ Piscium]	4.4	0 44 10.016	+3.1097	+ 52	+ 7 6 42.23	+19.629	− 46
29	[Br. 82]	5.7	0 45 26.190	+3.6128	+ 59	+63 46 26.71	+19.649	− 5
31	[λ Hydri]	5.3	0 45 34.689	+2.0992	+ 400	−75 23 49.05	+19.624	− 26
30	[19 Ceti]	5.4	0 45 46.145	+3.0046	− 159	−11 6 45.79	+19.425	− 223
32	γ Cassiopejae	2.0	0 51 26.822	+3.5966	+ 37	+60 14 44.98	+19.539	− 4
34	[λ² Tucanae]	5.3	0 51 45.343	+2.2472	− 33	−69 59 50.92	+19.492	− 45
33	μ Androm.	3.9	0 51 55.154	+3.3202	+ 129	+38 1 39.63	+19.570	+ 36
35	α Sculptoris	4.1	0 54 24.848	+2.8918	− 5	−29 49 39.29	+19.478	− 5
36	ε Piscium	4.2	0 58 25.573	+3.1109	− 55	+ 7 25 19.13	+19.428	+ 30
37	[26 Ceti]	6.2	0 59 20.319	+3.0860	+ 81	+ 0 54 2.42	+19.339	− 39
38	β Phoenicis	3.2	1 2 12.119	+2.6803	− 56	−47 11 4.56	+19.297	− 15
39	[ι Tucanae]	5.5	1 3 52.048	+2.3842	+ 101	−62 14 23.25	+19.268	− 4
40	[η Ceti]	3.3	1 4 12.757	+3.0169	+ 138	−10 38 35.67	+19.133	− 132

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von $0^s.0001$	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
41	[44 H. Ceph.]	5.7	1 4 42.737	+5.0597	+331	+79 12 40.50	+19.261	+9
42	β Androm.	2.1	1 4 51.368	+3.3505	+151	+35 9 34.50	+19.136	−112
43	[τ Piscium]	4.3	1 6 51.888	+3.2967	+56	+29 37 40.52	+19.157	−41
44	[Sculpt. 102 G.]	6.0	1 8 44.912	+2.7644	+39	−38 19 2.49	+19.123	−27
45	υ Piscium	4.6	1 14 40.838	+3.2902	+15	+26 48 25.32	+18.980	−11
47	ϑ Ceti	3.4	1 19 40.460	+2.9979	−55	−8 37 55.31	+18.632	−214
46	[ψ Cassiop.]	5.0	1 19 46.194	+4.1960	+134	+67 40 34.78	+18.876	+33
48	δ Cassiopejae	2.7	1 20 6.788	+3.8982	+397	+59 47 0.56	+18.791	−43
49	[γ Phoenicis]	3.2	1 24 35.246	+2.6070	−38	−43 45 49.66	+18.478	−218
50	η Piscium	3.6	1 26 49.511	+3.2056	+15	+14 53 51.30	+18.617	−7
51	40 Cassiopejae	5.5	1 31 32.297	+4.7286	−19	+72 35 49.56	+18.462	−6
52	υ Persei	3.6	1 32 38.671	+3.6666	+64	+48 11 16.04	+18.317	−113
53	[Hydri 14 G.]	6.3	1 33 3.783	+0.3636	−69	−78 56 47.09	+18.288	−128
54	α Eridani	1	1 34 28.571	+2.2385	+122	−57 40 42.74	+18.329	−38
55	43 Cassiopejae	5.9	1 35 52.761	+4.3987	+88	+67 36 12.54	+18.316	−2
56	[ν Piscium]	4.5	1 36 54.126	+3.1194	−16	+5 2 51.53	+18.282	+2
57	φ Persei	4.1	1 38 11.957	+3.7428	+26	+50 15 3.07	+18.219	−15
58	[Sculpt. 129 G.]	5.8	1 38 12.850	+2.6442	−58	−37 16 15.39	+18.210	−23
59	τ Ceti	3.4	1 40 1.575	+2.7868	−1196	−16 23 43.46	+19.018	+851
60	ο Piscium	4.3	1 40 47.842	+3.1645	+47	+8 43 12.80	+18.188	+50
61	Lac. ε Sculpt.	5.3	1 41 34.240	+2.8093	+99	−25 29 14.38	+18.034	−75
62	ζ Ceti	3.5	1 47 9.923	+2.9603	+22	−10 45 52.34	+17.860	−34
64	α Triang.	3.5	1 48 7.073	+3.4125	+11	+29 9 19.43	+17.624	−233
63	ε Cassiopejae	3.3	1 48 7.313	+4.2821	+50	+63 14 31.75	+17.841	−15
65	ξ Piscium	4.6	1 49 2.997	+3.1034	+13	+2 45 30.10	+17.838	+19
66	β Arietis	2.7	1 49 49.828	+3.3081	+65	+20 22 59.37	+17.679	−109
67	ψ Phoenicis	4.5	1 50 9.528	+2.4068	−95	−46 43 43.08	+17.673	−101
68	χ Eridani	3.6	1 52 34.312	+2.3358	+713	−52 2 30.70	+17.947	+271
69	[η² Hydri]	4.7	1 52 43.707	+1.5165	+119	−68 4 30.22	+17.749	+79
70	50 Cassiopejae	4.0	1 55 58.778	+5.0573	−91	+72 0 3.38	+17.558	+25
71	υ Ceti	3.9	1 55 54.347	+2.8267	+91	−21 29 56.46	+17.523	−14
72	α Hydri	2.9	1 56 1.678	+1.8903	+362	−61 59 34.77	+17.553	+21
73	γ Androm.	2.1	1 58 33.161	+3.6701	+43	+41 54 45.63	+17.370	−54
74	α Arietis	2.0	2 2 15.909	+3.3755	+137	+23 3 5.54	+17.117	−143
75	β Triang.	3.0	2 4 21.691	+3.5604	+122	+34 34 34.53	+17.126	−40
76	55 Cassiopejae	6.3	2 7 38.286	+4.6668	−10	+66 7 2.28	+17.019	+3
77	[6 Persei]	5.7	2 7 48.642	+3.9722	+367	+50 39 43.81	+16.840	−169
78	Lac. μ Forn.	5.2	2 9 4.634	+2.6429	+13	−31 7 53.81	+16.952	+2
79	[γ Triang.]	4.2	2 12 8.235	+3.5575	+37	+33 26 43.38	+16.762	−44
80	67 Ceti	5.8	2 12 38.575	+2.9906	+55	−6 49 21.60	+16.672	−110

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81	[ϑ Arietis]	5.7	2h 13m 16s.983	+3s.3316	− 10	+19° 29′ 56″.97	+16″.749	− 2
82	[φ Eridani]	3.5	2 13 24.041	+2.1433	+ 81	−51 54 52.83	+16.709	− 36
83	[κ Fornacis]	5.4	2 18 33.695	+2.7452	+ 142	−24 12 40.65	+16.430	− 63
84	[λ Horologii]	5.5	2 22 27.917	+1.6762	− 95	−60 42 4.17	+16.158	−137
85	ξ² Ceti	4.2	2 23 31.874	+3.1862	+ 26	+ 8 4 14.14	+16.237	− 4
86	[κ Eridani]	4.1	2 23 47.709	+2.1982	− 2	−48 5 38.78	+16.205	− 23
88	[λ¹ Fornacis]	6.0	2 29 29.286	+2.4996	− 43	−35 1 56.58	+15.898	− 32
87	36 H. Cassiop.	5.4	2 29 44.030	+5.6332	− 60	+72 26 19.12	+15.939	+ 21
90	μ Hydri	5.5	2 33 29.314	−1.3512	+ 474	−79 29 20.64	+15.684	− 32
89	ν Arietis	5.6	2 33 52.357	+3.4006	− 9	+21 35 8.73	+15.679	− 16
91	δ Ceti	3.9	2 35 1.292	+3.0726	+ 7	− 0 2 46.69	+15.630	− 2
92	[Br. 366]	6.3	2 37 19.339	+5.1154	+ 25	+67 27 20.95	+15.477	− 29
95	[ε Hydri]	4.0	2 38 14.807	+0.9132	+ 169	−68 38 22.57	+15.459	+ 5
93	ϑ Persei	4.1	2 38 14.989	+4.0815	+ 346	+48 51 40.04	+15.366	− 88
94	[35 Arietis]	4.7	2 38 20.538	+3.5132	+ 4	+27 20 15.15	+15.442	− 7
96	[γ Ceti]	3.4	2 38 47.447	+3.1056	− 98	+ 2 52 10.80	+15.275	−148
97	π Ceti	4.0	2 39 58.884	+2.8540	− 8	−14 13 35.99	+15.348	− 9
98	μ Ceti	4.2	2 40 14.200	+3.2392	+ 189	+ 9 44 50.44	+15.312	− 31
99	[η Persei]	3.8	2 44 20.436	+4.3549	+ 28	+55 32 6.58	+15.099	− 11
100	41 Arietis	3.6	2 44 51.530	+3.5244	+ 51	+26 54 9.08	+14.966	−113
101	β Fornacis	4.4	2 45 26.941	+2.5103	+ 62	−32 46 15.11	+15.204	+159
102	τ² Eridani	4.8	2 47 5.516	+2.7205	− 39	−21 21 44.22	+14.920	− 29
103	τ Persei	4.0	2 48 4.835	+4.2348	+ 3	+52 24 25.75	+14.891	− 2
104	η Eridani	3.7	2 52 10.577	+2.9293	+ 52	− 9 14 38.07	+14.432	−218
105	47 H. Cephei	5.8	2 54 28.142	+7.8379	− 113	+79 4 34.89	+14.535	+ 21
106	ϑ Eridani	2.9	2 54 57.662	+2.2724	− 68	−40 39 10.13	+14.510	+ 28
107	α Ceti	2.5	2 57 43.779	+3.1330	− 9	+ 3 44 56.32	+14.238	− 76
108	γ Persei	3.0	2 58 29.182	+4.3260	+ 2	+53 9 59.38	+14.264	− 4
109	ρ Persei	(3.8)	2 59 35.762	+3.8344	+ 114	+38 30 13.96	+14.096	−103
110	μ Horologii	5.1	3 1 33.628	+1.4080	− 117	−60 4 29.92	+14.010	− 68
113	[ϑ Hydri]	5.7	3 2 4.014	+0.1006	+ 51	−72 14 31.72	+14.068	+ 22
111	β Persei	(2.2)	3 2 30.150	+3.8926	+ 7	+40 37 16.34	+14.018	− 1
112	[ι Persei]	4.1	3 2 46.838	+4.3132	+1295	+49 16 54.10	+13.921	− 81
114	δ Arietis	4.3	3 6 39.063	+3.4254	+ 106	+19 23 53.98	+13.754	− 4
116	[94 Ceti]	5.2	3 8 19.978	+3.0602	+ 136	− 1 31 15.43	+13.589	− 61
117	12 Eridani	3.6	3 8 22.460	+2.5467	+ 241	−29 19 46.50	+14.291	+644
115	48 H. Cephei	5.9	3 9 14.217	+7.4912	+ 183	+77 24 59.76	+13.549	− 44
118	[Horol. 38 G.]	6.1	3 10 20.734	+1.5145	− 5	−57 38 49.64	+13.514	− 6
119	[e Eridani]	4.2	3 16 27.230	+2.3958	+2787	−43 24 8.05	+13.856	+735
120	α Persei	1.9	3 18 6.250	+4.2680	+ 29	+49 33 8.45	+12.986	− 26

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121	o Tauri	3.6	3h 20m 7s.762	+3s.2253	− 44	+ 8° 43′ 23″.90	+12″.800	− 76
122	2 H. Camelop.	4.4	3 22 0.777	+4.8329	− 1	+59 38 17.34	+12.757	+ 6
123	[ξ Tauri]	3.6	3 22 27.114	+3.2480	+ 39	+ 9 25 47.69	+12.675	− 45
124	[σ Persei]	4.8	3 24 26.052	+4.2165	+ 9	+47 41 44.62	+12.609	+ 23
125	f Tauri	4.1	3 26 4.044	+3.3084	+ 13	+12 38 20.88	+12.469	− 5
126	[κ Reticuli]	4.8	3 27 51.176	+1.0363	+514	−63 14 38.58	+12.713	+362
127	ε Eridani	3.5	3 28 49.851	+2.8253	−658	− 9 45 8.07	+12.296	+ 12
128	[Horol. 45 G.]	5.8	3 29 58.899	+1.7834	+ 48	−50 40 24.48	+12.285	+ 81
130	[y Eridani]	4.5	3 33 58.309	+2.1515	− 16	−40 33 34.45	+11.902	− 24
129	[Gr. 716]	5.4	3 34 35.597	+5.1770	− 21	+62 56 8.80	+11.905	+ 22
131	δ Persei	3.0	3 36 43.456	+4.2589	+ 33	+47 30 36.81	+11.695	− 35
133	[δ Fornacis]	4.9	3 38 47.246	+2.3849	− 5	−32 12 57.11	+11.592	+ 7
132	[o Persei]	3.9	3 38 51.548	+3.7554	+ 8	+32 0 48.07	+11.563	− 17
135	[δ Eridani]	3.4	3 39 4.771	+2.8725	− 65	−10 3 26.23	+12.311	+747
134	ν Persei	3.9	3 39 16.693	+4.0660	− 6	+42 18 16.38	+11.545	− 5
136	[17 Tauri]	4.0	3 39 42.370	+3.5576	+ 17	+23 50 25.99	+11.475	− 44
137	[24 Eridani]	5.4	3 40 5.286	+3.0452	+ 1	− 1 26 12.94	+11.483	− 8
138	5 H. Camelop.	4.5	3 41 9.232	+6.2791	+ 42	+71 3 55.75	+11.375	− 40
139	η Tauri	3.0	3 42 18.596	+3.5614	+ 18	+23 50 12.63	+11.284	− 48
140	τ⁶ Eridani	4.1	3 43 6.243	+2.5797	−123	−23 30 22.01	+10.755	−519
141	β Reticuli	3.8	3 43 6.265	+0.7420	+478	−65 4 50.23	+11.336	+ 62
142	[27 Tauri]	3.8	3 43 59.157	+3.5623	+ 14	+23 47 17.28	+11.166	− 45
143	g Eridani	4.1	3 46 11.893	+2.2447	− 40	−36 27 47.74	+10.998	− 52
146	γ Hydri	3.1	3 48 34.446	−0.9647	+123	−74 30 21.32	+10.985	+109
144	ζ Persei	2.9	3 48 39.581	+3.7651	+ 11	+31 37 33.83	+10.858	− 11
145	9 H. Camelop.	5.5	3 49 42.513	+5.0919	− 3	+60 51 18.08	+10.776	− 16
147	ε Persei	3.0	3 52 0.667	+4.0178	+ 23	+39 45 33.69	+10.593	− 29
148	ξ Persei	4.0	3 53 18.973	+3.8861	+ 10	+35 32 29.98	+10.516	− 8
149	γ Eridani	3.0	3 53 58.168	+2.7979	+ 43	−13 45 19.64	+10.364	−112
150	λ Tauri	(3.5)	3 55 51.481	+3.3206	− 5	+12 14 42.76	+10.322	− 13
151	ν Tauri	3.9	3 58 31.602	+3.1891	+ 4	+ 5 44 54.81	+10.124	− 10
153	[Erid. 174 G.]	5.7	4 2 2.244	+2.4718	+148	−27 53 21.56	+ 9.976	+108
152	c Persei	4.0	4 2 20.414	+4.3454	+ 33	+47 28 52.10	+ 9.813	− 32
154	o¹ Eridani	4.1	4 7 37.068	+2.9272	+ 8	− 7 3 49.73	+ 9.522	+ 82
155	α Horologii	3.7	4 11 7.023	+1.9854	+ 20	−42 30 30.60	+ 8.950	−219
156	α Reticuli	3.2	4 13 18.035	+0.7648	+ 50	−62 41 28.99	+ 9.046	+ 47
157	[γ Doradus]	4.2	4 13 44.680	+1.5676	+ 88	−51 42 20.85	+ 9.136	+172
160	υ⁴ Eridani	3.3	4 14 36.042	+2.2682	+ 37	−34 0 37.01	+ 8.885	− 12
158	[54 Persei]	5.3	4 14 45.474	+3.8896	− 20	+34 21 27.16	+ 8.879	− 6
159	[γ Tauri]	3.7	4 14 50.416	+3.4112	+ 82	+15 25 5.71	+ 8.850	− 29

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161	[Erid. 212 G.]	5.4	4h 16m 51s.319	+2s.6180	+ 36	−20° 50′ 47″.08	+8″.736	+ 15
162	δ Tauri	3.8	4 17 54.927	+3.4569	+ 78	+17 20 21.20	+8.606	− 31
163	[η Reticuli]	5.3	4 20 56.713	+0.6414	+126	−63 35 34.04	+8.557	+160
164	ε Tauri	3.5	4 23 32.074	+3.5003	+ 80	+18 59 17.79	+8.155	− 35
166	[δ Mensae]	5.8	4 23 49.789	−4.1476	+ 97	−80 25 6.73	+8.239	+ 72
165	[1 Camel. seq.]	6.3	4 25 8.019	+4.7403	+ 7	+53 43 21.99	+8.063	0
167	[δ Caeli]	5.2	4 28 10.150	+1.8355	− 6	−45 8 24.63	+7.802	− 17
168	α Tauri	1	4 30 55.600	+3.4399	+ 49	+16 20 6.59	+7.408	−189
169	ν Eridani	3.8	4 31 58.259	+2.9964	+ 2	− 3 31 46.83	+7.507	− 4
171	α Doradus	3.2	4 32 6.989	+1.2949	+ 71	−55 13 27.68	+7.503	+ 3
170	[υ^2 Eridani]	3.5	4 32 10.035	+2.3309	− 46	−30 44 23.45	+7.490	− 6
172	53 Eridani	3.9	4 34 11.706	+2.7461	− 54	−14 28 24.70	+7.166	−165
174	τ Tauri	4.2	4 37 1.289	+3.5982	+ 5	+22 47 27.02	+7.081	− 19
173	Gr. 848	6.2	4 37 6.273	+8.0173	+107	+75 47 4.79	+6.960	−133
175	4 Camelop.	5.5	4 40 45.024	+4.9857	+ 61	+56 36 13.65	+6.648	−146
176	[μ Eridani]	3.8	4 41 9.091	+2.9989	+ 13	− 3 24 48.42	+6.750	− 12
177	[μ Mensae]	5.5	4 43 55.699	−0.6139	+ 17	−71 5 26.34	+6.561	+ 28
178	9 Camelop.	4.3	4 45 23.511	+5.9435	+ 5	+66 11 46.74	+6.421	+ 10
179	[π^4 Orionis]	3.7	4 46 34.273	+3.1937	0	+ 5 27 25.25	+6.306	− 7
180	π^5 Orionis	3.7	4 49 43.105	+3.1236	− 2	+ 2 17 56.03	+6.048	− 3
181	ι Aurigae	2.7	4 51 19.549	+3.9037	+ 10	+33 1 45.31	+5.897	− 20
182	10 Camelop.	4.1	4 55 40.398	+5.3253	− 1	+60 18 58.82	+5.541	− 12
183	ε Aurigae	(3.2)	4 55 43.377	+4.3002	+ 6	+43 41 43.92	+5.535	− 14
184	ι Tauri	4.8	4 57 53.648	+3.5843	+ 53	+21 27 59.56	+5.323	− 43
185	η Aurigae	3.3	5 0 24.680	+4.2032	+ 33	+41 7 4.01	+5.082	− 71
186	ε Leporis	3.2	5 1 46.670	+2.5391	+ 20	−22 29 14.22	+4.970	− 68
187	[η^2 Pictoris]	5.1	5 2 42.617	+1.5496	+ 35	−49 41 42.70	+4.965	+ 6
188	β Eridani	2.7	5 3 34.326	+2.9487	− 59	− 5 11 53.59	+4.807	− 79
189	[ζ Doradus]	4.7	5 4 0.976	+1.0229	− 71	−57 35 28.74	+4.951	+103
190	[λ Eridani]	4.2	5 4 58.944	+2.8704	+ 3	− 8 51 53.89	+4.762	− 4
192	μ Aurigae	5.1	5 7 28.365	+4.1021	− 13	+38 22 56.56	+4.476	− 79
191	19 H. Camelop.	5.1	5 8 11.684	+9.8257	−315	+79 8 0.88	+4.653	+160
193	α Aurigae	1	5 10 15.581	+4.4283	+ 85	+45 54 38.04	+3.889	−428
194	β Orionis	1	5 10 21.361	+2.8823	+ 2	− 8 18 5.26	+4.308	0
195	[τ Orionis]	3.7	5 13 22.878	+2.9122	− 12	− 6 56 15.83	+4.042	− 7
196	θ Doradus	4.8	5 13 49.261	−0.0535	+ 14	−67 16 59.47	+4.050	+ 39
197	[ο Columbae]	4.9	5 14 20.753	+2.1623	+ 63	−34 58 46.78	+3.638	−328
198	[Columb. 12 G.]	6.0	5 15 55.620	+2.3917	+ 8	−27 27 27.90	+3.820	− 11
199	[ζ Pictoris]	5.6	5 17 13.986	+1.4691	+ 8	−50 41 56.78	+3.946	+227
200	[η Orion. m.]	3.3	5 20 6.143	+3.0161	+ 5	− 2 28 35.23	+3.473	+ 1

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
201	γ Orionis	1.7	5 20 27.845	+3.2170	− 3	+ 6 16 17.65	+3.421	− 20
202	β Tauri	1.8	5 20 47.468	+3.7912	+ 25	+28 32 5.58	+3.236	−177
203	17 Camelop.	5.9	5 21 56.933	+5.6586	− 3	+62 59 45.16	+3.312	− 1
204	[β Leporis]	2.9	5 24 31.059	+2.5707	+ 4	−20 49 41.69	+2.998	− 93
206	δ Orionis	2.2	5 27 33.666	+3.0642	0	− 0 21 46.15	+2.826	− 2
205	Gr. 966	6.6	5 28 4.998	+8.0068	− 9	+74 59 17.26	+2.802	+ 20
207	α Leporis	2.6	5 28 53.554	+2.6455	+ 2	−17 53 2.23	+2.715	+ 2
208	[φ¹ Orionis]	4.6	5 30 2.619	+3.2926	− 1	+ 9 25 52.99	+2.603	− 10
209	ι Orionis	2.8	5 31 10.617	+2.9345	+ 4	− 5 57 58.87	+2.510	− 4
210	ε Orionis	1.6	5 31 47.894	+3.0436	+ 1	− 1 15 24.41	+2.457	− 3
211	ζ Tauri	3.0	5 32 26.671	+3.5848	+ 6	+21 5 25.14	+2.379	− 26
212	β Doradus	3.7	5 32 52.106	+0.5170	− 13	−62 32 47.65	+2.365	− 2
213	[σ Orionis]	3.8	5 34 22.678	+3.0111	0	− 2 38 58.49	+2.235	− 1
214	[γ Mensae]	5.3	5 35 19.313	−2.3931	+278	−76 24 12.57	+2.453	+299
215	α Columbae	2.4	5 36 29.862	+2.1717	− 1	−34 7 12.09	+2.015	− 37
216	ο Aurigae	5.7	5 39 9.566	+4.6463	− 6	+49 47 21.50	+1.812	− 9
217	[γ Leporis]	3.8	5 40 50.196	+2.5015	−201	−22 28 34.33	+1.298	−376
218	[130 Tauri]	5.8	5 42 21.818	+3.4981	+ 4	+17 41 50.54	+1.535	− 6
219	ζ Leporis	3.5	5 43 0.776	+2.7179	− 12	−14 51 13.37	+1.483	− 2
220	κ Orionis	2.1	5 43 37.798	+2.8451	+ 4	− 9 41 59.46	+1.428	− 3
221	[ν Aurigae]	3.9	5 45 27.555	+4.1570	− 4	+39 7 26.47	+1.282	+ 11
222	[δ Leporis]	3.8	5 47 34.777	+2.5800	+166	−20 53 9.20	+0.433	−652
223	[β Columbae]	2.9	5 47 53.495	+2.1134	+ 33	−35 48 1.66	+1.462	+404
224	α Orionis	1	5 50 27.680	+3.2478	+ 20	+ 7 23 30.03	+0.848	+ 13
225	δ Aurigae	3.8	5 52 21.804	+4.9400	+100	+54 16 45.20	+0.546	−122
226	[η Leporis]	3.6	5 52 26.529	+2.7324	− 27	−14 10 58.50	+0.800	+140
227	β Aurigae	1.9	5 53 8.826	+4.4013	− 42	+44 56 22.66	+0.592	− 8
228	ϑ Aurigae	2.7	5 53 47.318	+4.0917	+ 49	+37 12 26.86	+0.456	− 87
229	η Columbae	3.9	5 56 29.016	+1.8366	+ 22	−42 49 10.79	+0.274	− 34
230	[66 Orionis]	5.9	6 0 22.530	+3.1693	− 6	+ 4 9 51.35	−0.048	− 15
231	[Puppis 1 G.]	5.8	6 1 58.163	+1.7263	− 83	−45 2 8.98	+0.060	+232
232	ν Orionis	4.4	6 2 36.284	+3.4262	+ 11	+14 46 46.53	−0.259	− 31
233	[36 Camelop.]	5.6	6 4 5.897	+6.0366	− 5	+65 44 13.67	−0.387	− 29
235	[δ Pictoris]	5.0	6 8 36.186	+1.1667	− 22	−54 56 56.31	−0.760	− 7
234	22 H. Camelop.	4.6	6 9 15.714	+6.6177	+ 16	+69 21 7.58	−0.912	−102
236	η Geminor.	3.3	6 9 37.576	+3.6224	− 42	+22 31 58.55	−0.855	− 13
237	[2 Lyncis]	4.4	6 11 56.893	+5.2969	− 7	+59 2 37.40	−1.015	+ 29
239	[α Mensae]	5.1	6 12 49.755	−1.7889	+238	−74 43 25.18	−1.347	−226
238	[κ Columbae]	4.4	6 13 27.396	+2.1340	− 6	−35 6 39.88	−1.102	+ 74
240	ζ Canis maj.	2.9	6 16 58.365	+2.3026	+ 2	−30 1 26.79	−1.479	+ 4

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
241	μ Geminor.	2.9	6h 17m 41s.862	+ 3s.6309	+ 48	+22° 33′ 32″.96	−1″.657	− 111
242	ψ1 Aurigae	5.1	6 18 11.952	+ 4.6241	+ 9	+49 20 0.38	−1.593	− 3
243	β Canis maj.	2.0	6 18 52.087	+ 2.6417	− 4	−17 54 43.42	−1.647	+ 2
244	8 Monocer.	4.5	6 19 9.491	+ 3.1799	− 7	+ 4 38 16.03	−1.670	+ 4
245	α Argus	1	6 22 1.169	+ 1.3313	+ 16	−52 38 52.06	−1.911	+ 11
246	10 Monocer.	5.0	6 23 39.809	+ 2.9629	− 2	− 4 42 27.65	−2.061	+ 5
247	8 Lyncis	6.3	6 29 44.546	+ 5.4909	−283	+61 33 32.06	−2.872	− 277
248	23 H. Camelop.	5.6	6 31 24.320	+10.3019	−273	+79 39 39.57	−3.361	− 623
249	ξ2 Canis maj.	4.6	6 31 24.586	+ 2.5140	+ 5	−22 53 42.94	−2.725	+ 13
250	51 Aurigae	6.1	6 32 37.895	+ 4.1600	− 18	+39 28 6.57	−2.959	− 114
251	γ Geminor.	2.0	6 32 41.192	+ 3.4672	+ 34	+16 28 27.70	−2.895	− 45
252	ν Argus	3.1	6 35 5.931	+ 1.8354	− 4	−43 7 9.46	−3.078	− 20
253	S Monocer.	(4.4)	6 36 11.242	+ 3.3053	+ 6	+ 9 58 37.19	−3.157	− 5
254	ε Geminor.	3.1	6 38 34.838	+ 3.6934	+ 3	+25 13 5.37	−3.373	− 15
256	ξ Geminor.	3.4	6 40 24.425	+ 3.3686	− 75	+12 59 24.63	−3.715	− 199
255	[ψ5 Aurigae]	5.5	6 40 28.232	+ 4.3289	+ 6	+43 39 53.89	−3.367	+ 154
257	α Canis maj.[1]	1	6 41 18.960	+ 2.6438	−369	−16 35 46.12	−4.807	−1213
258	18 Monocer.	4.7	6 43 19.510	+ 3.1299	− 2	+ 2 30 29.01	−3.787	− 20
259	[43 Camelop.]	5.1	6 44 19.829	+ 6.4891	+ 16	+68 59 27.24	−3.850	+ 3
261	ϑ Geminor.	3.4	6 47 3.390	+ 3.9580	+ 7	+34 4 1.35	−4.142	− 55
262	α Pictoris	3.2	6 47 17.967	+ 0.6182	−101	−61 50 51.79	−3.852	+ 256
264	[ζ Mensae]	5.7	6 47 18.333	− 4.9387	− 38	−80 43 21.90	−4.024	+ 85
260	[24 H. Camel.]	4.6	6 47 23.664	+ 8.8004	+217	+77 5 24.82	−4.129	− 13
263	[τ Argus]	2.9	6 47 46.624	+ 1.4888	+ 29	−50 30 38.61	−4.244	− 96
265	15 Lyncis	4.6	6 49 44.828	+ 5.2054	0	+58 32 16.87	−4.447	− 130
266	ϑ Canis maj.	4.1	6 50 8.875	+ 2.7876	− 94	−11 55 44.39	−4.365	− 14
267	[ι Volantis]	5.4	6 52 26.929	− 0.6770	− 5	−70 51 18.54	−4.536	+ 12
268	ε Canis maj.	1.5	6 55 12.360	+ 2.3575	0	−28 51 11.18	−4.781	+ 1
269	ζ Geminor.	(3.8)	6 58 57.006	+ 3.5609	0	+20 41 55.63	−5.102	− 3
270	[o2 Canis maj.]	3.1	6 59 23.493	+ 2.5052	− 2	−23 42 20.13	−5.137	0
271	γ Canis maj.	4.0	6 59 49.368	+ 2.7152	+ 8	−15 30 14.81	−5.186	− 12
272	[Carinae 27 G.]	5.5	7 2 40.961	+ 1.1175	− 24	−56 37 2.35	−5.422	− 7
273	δ Canis maj.	1.9	7 4 51.200	+ 2.4389	− 8	−26 15 16.19	−5.594	+ 3
274	63 Aurigae	5.0	7 5 40.422	+ 4.1324	+ 45	+39 27 48.40	−5.666	+ 1
275	[J Puppis]	4.5	7 10 4.746	+ 1.7095	−148	−46 36 48.97	−5.944	+ 90
276	[64 Aurigae]	6.0	7 11 59.430	+ 4.1786	− 3	+41 2 19.42	−6.190	+ 3
277	λ Geminor.	3.6	7 13 5.655	+ 3.4502	− 31	+16 41 53.14	−6.329	− 44
278	π Argus	2.5	7 14 4.166	+ 2.1184	− 14	−36 56 26.74	−6.364	+ 3
279	δ Geminor.	3.3	7 14 55.725	+ 3.5866	− 11	+22 8 36.30	−6.448	− 10
280	19 Lync. seq.	5.5	7 15 46.418	+ 4.9080	− 1	+55 26 47.14	−6.542	− 34

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
281	δ Volantis	4.0	7 16 52.710	−0.0189	+ 4	−67 47 52.86	− 6.611	− 12
282	ι Geminor.	3.8	7 20 19.521	+3.7308	− 83	+27 58 18.74	− 6.968	− 85
283	[η Can. maj.]	2.4	7 20 39.218	+2.3729	− 5	−29 7 57.83	− 6.897	+ 13
284	Gr. 1308	5.8	7 21 50.277	+6.2743	− 7	+68 38 41.15	− 7.051	− 44
285	β Canis min.	2.9	7 22 26.020	+3.2556	− 31	+ 8 27 55.41	− 7.096	− 41
286	ρ Geminor.	4.4	7 23 31.065	+3.8637	+122	+31 57 30.46	− 6.962	+ 183
287	α Gemin.[2])	1.8,2.8	7 29 2.944	+3.8350	−129	+32 4 49.80	− 7.676	− 81
288	[Pupp. 108 G.]	4.7	7 30 19.713	+2.5674	− 39	−22 6 27.97	− 7.680	+ 18
289	25 Monocer.	5.3	7 32 57.186	+2.9838	− 47	− 3 54 57.79	− 7.889	+ 20
290	[f Puppis]	4.7	7 34 8.920	+2.2192	− 27	−34 46 20.25	− 7.989	+ 16
291	α Can. min.[3])	0.5	7 34 44.911	+3.1424	−469	+ 5 26 55.47	− 9.082	−1029
292	24 Lyncis	5.0	7 35 39.171	+5.0943	− 47	+58 54 54.12	− 8.179	− 53
293	[26 Monocer.]	4.0	7 37 5.428	+2.8663	− 57	− 9 20 51.15	− 8.262	− 21
294	κ Geminor.	3.4	7 39 11.852	+3.6267	− 15	+24 36 26.84	− 8.462	− 54
295	β Geminor.	1.1	7 39 59.667	+3.6762	−468	+28 14 13.78	− 8.525	− 53
296	π Geminor.	5.5	7 41 54.003	+3.8750	− 1	+33 37 48.25	− 8.653	− 31
297	ζ Volantis	3.9	7 42 53.717	−0.7213	+ 8	−72 23 50.18	− 8.693	+ 8
298	[Pupp. 205 G.]	5.7	7 47 44.606	+2.7788	− 41	−13 39 59.69	− 9.423	− 343
299	[26 Lyncis]	5.7	7 48 22.919	+4.3802	− 40	+47 47 27.87	− 9.137	− 7
301	[a Puppis]	3.7	7 49 13.549	+2.0619	− 18	−40 21 3.24	− 9.195	+ 1
300	Gr. 1374	5.5	7 49 48.224	+7.2471	− 30	+74 9 6.75	− 9.273	− 32
302	[53 Camelop.]	6.3	7 54 17.179	+5.1493	− 30	+60 33 48.07	− 9.609	− 21
303	χ Argus	3.5	7 54 34.047	+1.5271	− 32	−52 44 54.59	− 9.585	+ 24
304	[27 Monocer.]	5.2	7 55 23.446	+2.9995	− 27	− 3 26 30.00	− 9.663	+ 9
305	γ Geminor.	5.1	7 58 10.654	+3.6903	− 15	+28 2 20.60	− 9.930	− 46
306	ζ Argus	2.2	8 0 31.534	+2.1076	− 34	−39 45 27.29	−10.052	+ 10
307	27 Lyncis	4.6	8 1 55.158	+4.5280	− 59	+51 45 30.27	−10.172	− 5
308	ι Navis	2.8	8 3 50.313	+2.5547	− 64	−24 3 10.65	−10.266	+ 47
309	γ Argus	2.1	8 6 51.050	+1.8488	− 12	−47 4 47.21	−10.542	− 4
310	Br. 1147	5.8	8 8 38.497	+7.6241	+ 58	+76 1 26.58	−10.654	+ 17
311	20 Navis	5.3	8 9 20.058	+2.7581	− 8	−15 31 31.91	−10.727	− 6
312	β Cancri	3.5	8 11 47.911	+3.2564	− 30	+ 9 27 15.64	−10.955	− 52
313	[η Puppis]	4.4	8 15 17.846	+2.2440	−104	−36 23 21.14	−11.070	+ 89
314	31 Lyncis	4.4	8 16 53.067	+4.1193	− 8	+43 28 4.78	−11.381	− 108
315	ε Argus	1.7	8 20 43.810	+1.2350	− 32	−59 13 44.95	−11.535	+ 15
316	Br. 1197	3.6	8 21 18.850	+2.9995	− 41	− 3 37 19.10	−11.613	− 21
317	ο Ursae maj.	3.3	8 23 2.802	+5.0123	−174	+61 0 36.03	−11.826	− 111
318	θ Chamael.	4.2	8 23 16.075	−1.7444	−456	−77 12 14.91	−11.701	+ 30
319	[β Volantis]	3.7	8 24 47.638	+0.6624	− 53	−65 50 47.05	−12.016	− 177
320	Gr. 1450	6.3	8 27 15.895	+3.9097	− 83	+38 18 55.99	−12.183	− 170

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von $0^s.0001$	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
321	η Canceri	5.6	8 27 40.809	+3.4745	— 26	+20 44 14.65	—12.092	— 50
322	[Gr. 1446]	6.4	8 30 3.669	+6.7500	— 36	+73 56 6.33	—12.312	—104
323	[Gr. 1460]	6.3	8 32 51.258	+4.4631	— 38	+53 1 2.21	—12.435	— 35
324	[e Velorum]	4.2	8 34 35.030	+2.1078	— 22	—42 41 3.63	—12.526	— 7
325	[6 Hydrae]	5.4	8 35 54.149	+2.8422	— 64	—12 10 2.15	—12.611	— 3
326	δ Cancri	3.9	8 39 44.594	+3.4141	— 9	+18 28 28.93	—13.104	—236
327	α Pyxidis	3.7	8 40 5.747	+2.4098	— 15	—32 52 20.11	—12.880	+ 12
328	ι Cancri	4.1	8 41 26.153	+3.6377	— 12	+29 4 43.75	—13.028	— 47
329	[ε Hydrae]	3.3	8 42 10.214	+3.1800	— 126	+ 6 44 19.06	—13.080	— 50
330	δ Argus	2.0	8 42 18.085	+1.6575	+ 22	—54 23 22.18	—13.132	— 93
331	[η Chamael.]	5.9	8 44 18.263	—1.9604	— 151	—78 38 52.15	—13.138	+ 34
332	[γ Pyxidis]	4.2	8 46 50.360	+2.5458	— 100	—27 23 11.88	—13.244	+ 93
333	[σ² Cancri med.]	5.6	8 48 56.400	+3.6681	+ 31	+30 54 34.29	—13.500	— 26
334	ζ Hydrae	3.1	8 50 47.775	+3.1742	— 64	+ 6 16 38.10	—13.582	+ 12
336	e Carinae	4.0	8 53 4.622	+1.3631	— 26	—60 18 42.44	—13.688	+ 52
335	ι Ursae maj.	2.9	8 53 15.459	+4.1235	— 437	+48 23 2.17	—13.999	—247
337	α Cancri	4.1	8 53 43.854	+3.2849	+ 26	+12 11 42.40	—13.817	— 35
338	[ρ Ursae maj.]	4.9	8 54 43.038	+5.4576	— 34	+67 58 10.58	—13.830	+ 15
339	10 Ursae maj.	3.9	8 54 59.877	+3.9074	— 383	+42 7 40.39	—14.126	—264
340	[Gr. 1501]	5.9	8 57 38.433	+4.4164	— 8	+54 37 39.19	—14.025	+ 3
341	κ Ursae maj.	3.3	8 57 41.533	+4.1115	— 27	+47 30 4.66	—14.096	— 65
343	α Volantis	4.1	9 1 4.563	+0.9546	— 7	—66 2 55.26	—14.354	—114
342	[c Velorum]	3.9	9 1 9.126	+2.0661	— 70	—46 45 3.79	—14.274	— 28
344	σ² Ursae maj.	4.9	9 2 45.277	+5.3235	— 16	+67 29 19.27	—14.411	— 67
345	λ Argus	2.1	9 4 47.661	+2.2042	— 33	—43 4 51.11	—14.459	+ 9
346	[36 Lyncis]	5.3	9 8 7.161	+3.9375	— 18	+43 34 37.32	—14.710	— 42
347	ϑ Hydrae	3.9	9 9 50.348	+3.1238	+ 89	+ 2 40 54.65	—15.083	—313
348	β Argus	1.7	9 12 15.002	+0.6713	— 303	—69 21 31.34	—14.815	+ 97
349	[38 Lyncis]	3.9	9 13 26.114	+3.7441	— 18	+37 10 16.93	—15.110	—129
350	83 Cancri	6.7	9 14 7.687	+3.3534	— 80	+18 4 29.06	—15.156	—135
351	[ι Argus]	2.2	9 14 45.645	+1.6061	— 35	—58 54 35.61	—15.056	+ 2
352	40 Lyncis	3.2	9 15 45.547	+3.6640	— 178	+34 45 39.69	—15.103	+ 12
353	κ Argus	2.5	9 19 25.099	+1.8563	— 22	—54 38 19.55	—15.322	+ 2
354	α Hydrae	2.0	9 23 18.762	+2.9490	— 7	— 8 16 51.62	—15.509	+ 32
355	h Ursae maj.	3.5	9 24 41.039	+4.7658	+ 168	+63 26 34.83	—15.588	+ 28
356	[ε Antliae]	4.7	9 25 39.199	+2.4740	— 25	—35 34 13.66	—15.683	— 14
357	d Ursae maj.	4.5	9 26 48.665	+5.3626	— 121	+70 12 48.90	—15.658	+ 75
358	ϑ Ursae maj.	3.1	9 27 2.783	+4.0313	—1028	+52 4 28.03	—16.292	— 547
359	ψ Argus	3.6	9 27 16.322	+2.3601	— 172	—40 5 7.36	—15.683	+ 74
361	[N Velorum]	3.0	9 28 34.704	+1.8228	— 36	—56 39 0.59	—15.826	+ 1

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360	10 Leon. min.	4.6	9h 28m 53s.905	+3s.6859	+ 13	+36° 47′ 3″.89	−15″.870	− 26
362	[H Carinae]	5.8	9 30 57.613	+0.4697	− 61	−72 41 41.83	−15.971	− 17
363	[Gr. 1564]	5.9	9 34 49.201	+5.1904	−131	+69 38 3.17	−16.230	− 74
364	[κ Hydrae]	5.1	9 36 8.129	+2.8760	− 18	−13 56 13.42	−16.235	− 11
365	[ο Leonis]	3.8	9 36 30.550	+3.2053	− 94	+10 17 19.02	−16.281	− 37
366	θ Antliae	5.0	9 40 19.363	+2.6725	− 40	−27 22 14.70	−16.402	+ 35
367	ε Leonis	3.0	9 40 54.957	+3.4116	− 31	+24 10 31.17	−16.484	− 17
368	υ Ursae maj.	3.8	9 44 48.867	+4.2940	−379	+59 26 54.84	−16.813	−154
369	υ Argus	3.0	9 44 55.667	+1.5013	− 21	−64 40 5.36	−16.665	− 1
370	6 Sextantis	6.2	9 46 51.027	+3.0242	+ 8	− 3 50 6.79	−16.787	− 30
371	[μ Leonis]	4.0	9 47 49.128	+3.4184	−162	+26 25 1.94	−16.859	− 57
372	Gr. 1586	6.3	9 50 37.885	+5.4367	−180	+73 17 37.96	−16.982	− 45
373	[Hydrae 183 G.]	5.5	9 50 46.006	+2.8298	− 24	−18 35 49.13	−17.009	− 66
374	[19 Leon. min.]	5.2	9 52 21.691	+3.6869	−100	+41 28 13.47	−17.044	− 27
375	[φ Argus]	3.7	9 53 48.394	+2.1027	− 21	−54 9 12.06	−17.085	− 2
377	[η Antliae]	5.3	9 55 8.206	+2.5707	− 83	−35 28 27.11	−17.168	− 24
376	[12 Sextantis]	6.7	9 55 12.375	+3.1138	− 47	+ 3 48 4.11	−17.120	+ 27
378	π Leonis	4.9	9 55 37.049	+3.1732	− 21	+ 8 27 43.39	−17.190	− 25
379	η Leonis	3.4	10 2 35.497	+3.2750	− 2	+17 11 14.30	−17.478	− 6
380	α Leonis	1.3	10 3 44.430	+3.1986	−167	+12 23 33.99	−17.522	− 1
381	λ Hydrae	3.7	10 6 20.811	+2.9249	−134	−11 55 25.23	−17.718	− 87
382	q Velorum	3.9	10 11 4.857	+2.5126	−154	−41 41 25.93	−17.780	+ 45
385	[ω Argus]	3.4	10 11 40.367	+1.4333	− 28	−69 36 20.44	−17.848	0
383	λ Ursae maj.	3.4	10 11 51.333	+3.6312	−148	+43 20 57.10	−17.904	− 49
384	ζ Leonis	3.4	10 11 51.268	+3.3427	+ 15	+23 51 4.61	−17.863	− 7
386	μ Ursae maj.	3.0	10 17 9.094	+3.5865	− 70	+41 56 14.65	−18.037	+ 24
387	30 H. Urs. maj.	5.0	10 17 52.345	+4.3641	− 25	+66 0 24.66	−18.107	− 18
388	[25 Sextantis]	6.2	10 19 2.654	+3.0324	− 40	− 3 38 2.67	−18.135	− 2
389	μ Hydrae	3.9	10 21 52.946	+2.9009	− 85	−16 23 30.74	−18.318	− 82
391	J Carinae	4.1	10 22 40.210	+1.1964	− 67	−73 35 18.80	−18.282	− 17
390	31 Leon. min.	4.2	10 22 51.437	+3.4795	− 96	+37 9 12.23	−18.378	−106
392	Lac. α Antliae	4.2	10 23 10.151	+2.7420	− 62	−30 37 28.27	−18.273	+ 10
393	s Carinae	4.1	10 24 40.935	+2.1954	− 32	−58 17 41.78	−18.351	− 14
394	36 Ursae maj.	4.8	10 25 4.084	+3.8613	−217	+56 25 37.49	−18.384	− 33
395	9 H. Dracon.	4.9	10 27 43.915	+5.1886	− 96	+76 9 42.00	−18.448	− 4
396	[ρ Leonis]	3.8	10 28 13.895	+3.1616	− 6	+ 9 45 16.61	−18.465	− 5
397	[p Carinae]	3.5	10 28 55.737	+2.1286	− 18	−61 14 15.08	−18.479	+ 5
398	[37 Ursae maj.]	5.2	10 29 34.031	+3.8882	+ 83	+57 31 51.96	−18.470	+ 36
399	[44 Hydrae]	5.6	10 29 52.552	+2.8519	− 2	−23 17 47.66	−18.495	+ 21
400	[p Velorum]	4.0	10 33 38.461	+2.5125	−183	−47 46 24.79	−18.673	− 34

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
401	[γ Chamael.]	4.2	10 34 26.998	+0.7371	−116	−78 9 22.88	−18.635	+ 30
402	[x Velorum]	4.4	10 35 50.297	+2.3760	− 75	−55 9 0.15	−18.730	− 21
403	[35 H. Urs. maj.]	5.1	10 36 51.308	+4.3412	− 19	+69 31 53.74	−18.759	− 18
404	33 Sextantis	6.6	10 36 58.665	+3.0526	− 94	− 1 17 2.35	−18.870	−125
405	[41 Leon. min.]	5.2	10 38 41.313	+3.2678	− 81	+23 38 39.18	−18.785	+ 13
406	ϑ Argus	2.8	10 39 51.025	+2.1337	− 26	−63 56 18.20	−18.828	+ 4
407	42 Leon. min.	5.3	10 41 1.867	+3.3438	− 15	+31 8 27.06	−18.905	− 37
408	μ Argus	2.7	10 43 1.410	+2.5715	+ 49	−48 57 37.23	−18.990	− 65
409	l Leonis	5.4	10 44 41.141	+3.1562	− 3	+11 0 20.86	−19.003	− 30
411	[δ² Chamael.]	4.7	10 44 58.903	+0.6036	−119	−80 4 52.30	−18.972	+ 9
410	[ν Hydrae]	3.2	10 45 19.888	+2.9586	+ 66	−15 44 17.42	−18.797	+195
412	[46 Leon. min.]	3.9	10 48 27.027	+3.3642	+ 76	+34 41 3.00	−19.359	−282
414	[ι Antliae]	4.9	10 52 39.657	+2.7906	+ 62	−36 40 11.58	−19.324	−137
413	[Br. 1508]	6.4	10 53 1.679	+4.8953	−260	+78 14 11.74	−19.223	− 26
415	i Velorum	4.5	10 56 9.596	+2.7465	+ 20	−41 45 32.70	−19.277	− 4
416	β Ursae maj.	2.3	10 56 36.004	+3.6415	+101	+56 50 56.29	−19.257	+ 26
417	α Ursae maj.	1.8	10 58 22.155	+3.7291	−175	+62 13 15.18	−19.397	− 72
418	χ Leonis	4.8	11 0 31.823	+3.0965	−231	+ 7 48 23.64	−19.420	− 46
419	[χ Hydrae]	4.8	11 1 8.266	+2.8856	−154	−26 49 25.89	−19.395	− 7
420	ψ Ursae maj.	3.0	11 4 46.662	+3.3854	− 57	+44 58 14.57	−19.502	− 36
421	β Crateris	4.3	11 7 22.644	+2.9475	0	−22 21 2.30	−19.617	− 98
422	δ Leonis	2.4	11 9 29.022	+3.1954	+106	+21 0 1.92	−19.697	−136
423	ϑ Leonis	3.3	11 9 40.580	+3.1513	− 43	+15 54 18.97	−19.646	− 81
424	[Gr. 1757]	6.1	11 11 48.019	+3.3948	− 97	+49 57 4.27	−19.627	− 22
425	ν Ursae maj.	3.4	11 13 47.000	+3.2486	− 16	+33 34 8.93	−19.618	+ 22
426	δ Crateris	3.6	11 14 59.388	+2.9972	− 88	−14 18 27.35	−19.460	+200
427	σ Leonis	4.1	11 16 39.068	+3.0950	− 62	+ 6 30 22.64	−19.700	− 12
428	π Centauri	4.1	11 17 2.095	+2.7255	− 41	−54 0 50.82	−19.708	− 13
429	Gr. 1771	6.2	11 17 41.779	+3.5929	− 10	+64 48 24.47	−19.671	+ 34
430	[ι Leonis]	4.0	11 19 23.395	+3.1290	+106	+11 0 30.75	−19.815	− 84
431	[γ Crateris]	4.0	11 20 32.042	+2.9945	− 72	−17 12 21.55	−19.743	+ 7
432	[58 Ursae maj.]	6.1	11 25 48.948	+3.2577	− 44	+43 39 3.19	−19.751	+ 72
433	λ Draconis	3.6	11 26 15.190	+3.5978	− 80	+69 48 40.85	−19.850	− 21
434	ξ Hydrae	3.6	11 28 43.193	+2.9450	−167	−31 22 34.12	−19.902	− 43
435	[C Centauri]	5.5	11 31 42.261	+2.8964	+ 13	−47 9 32.66	−19.940	− 47
436	λ Centauri	3.3	11 31 45.731	+2.7508	− 58	−62 32 18.10	−19.911	− 17
437	υ Leonis	4.4	11 32 29.654	+3.0717	+ 1	− 0 20 36.13	−19.866	+ 36
438	[π Chamael.]	6.1	11 33 40.020	+2.4559	−277	−75 24 53.32	−19.918	− 5
439	[o Hydrae]	4.8	11 35 53.351	+2.9740	− 30	−34 15 44.67	−19.934	+ 1
440	3 Draconis	5.4	11 37 37.854	+3.3749	− 78	+67 13 35.53	−19.911	+ 40

Nr.	Name	Gr.	AR. 1913.0	Jährl. Verände-rung	Jährl. Eigen-bew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Verände-rung	Jährl. Eigen-bew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
441	χ Ursae maj.	3.8	11 41 27.691	+3.1802	−134	+48 15 42.55	−19.961	+ 20
442	[λ Muscae]	3.7	11 41 29.627	+2.8124	−152	−66 14 47.08	−19.960	+ 20
443	[Centauri 65 G.]	4.2	11 42 17.966	+2.8863	− 25	−60 41 40.95	−20.021	− 35
444	β Leonis	2.1	11 44 37.394	+3.0626	−341	+15 3 30.38	−20.119	−118
445	β Virginis	3.5	11 46 9.810	+3.1252	+494	+ 2 15 18.03	−20.285	−276
446	[B Centauri]	4.8	11 46 47.372	+2.9853	−111	−44 41 22.26	−20.059	− 46
447	γ Ursae maj.	2.3	11 49 15.625	+3.1701	+108	+54 10 42.42	−20.022	+ 2
448	[ε Chamael.]	5.0	11 55 17.338	+2.9301	−161	−77 44 14.44	−20.050	− 9
449	[Centauri 88 G.]	5.5	11 59 8.882	+3.0948	+267	−41 56 48.88	−20.168	−122
450	o Virginis	4.1	12 0 46.678	+3.0571	−147	+ 9 12 58.01	−20.008	+ 38
451	[Gr. 1852]	6.0	12 0 50.667	+3.0945	+439	+77 23 32.07	−20.142	− 96
452	δ Centauri	2.7	12 3 50.633	+3.0951	− 44	−50 14 16.32	−20.061	− 18
453	ε Corvi	3.0	12 5 38.869	+3.0809	− 51	−22 8 9.30	−20.029	+ 11
454	4 H. Draconis	5.0	12 8 8.218	+2.8498	+ 23	+78 5 58.76	−20.010	+ 23
455	[δ Crucis]	3.0	12 10 31.097	+3.1666	− 50	−58 15 54.27	−20.051	− 27
456	δ Ursae maj.	3.4	12 11 7.577	+2.9843	+136	+57 30 57.30	−20.019	+ 3
457	[γ Corvi]	2.4	12 11 19.790	+3.0816	−112	−17 3 32.15	−20.005	+ 17
458	[2 Can. ven.]	5.9	12 11 46.209	+3.0152	+ 26	+41 8 39.65	−20.065	− 45
459	β Chamael.	4.4	12 13 13.201	+3.4485	−142	−78 49 45.11	−20.000	+ 12
460	η Virginis	3.7	12 15 27.262	+3.0687	− 42	− 0 11 0.21	−20.023	− 23
461	[6 Can. ven.]	5.3	12 21 33.954	+2.9624	− 67	+39 30 4.35	−19.993	− 36
462	α Crucis md.	1.0	12 21 45.304	+3.3127	− 44	−62 37 2.57	−19.987	− 31
463	[Hydr. 323 G.]	5.7	12 22 16.354	+3.1533	− 14	−32 20 52.68	−20.000	− 49
464	[σ Centauri]	4.1	12 23 19.747	+3.2294	− 36	−49 44 56.08	−19.975	− 33
466	20 Comae	6.0	12 25 21.105	+3.0174	+ 26	+21 22 39.86	−19.962	− 39
465	δ Corvi	2.8	12 25 21.642	+3.1005	−145	−16 1 52.25	−20.065	−142
467	[74 Ursae maj.]	5.6	12 25 53.798	+2.8133	− 96	+58 53 3.50	−19.830	+ 88
468	[γ Crucis]	1.6	12 26 19.931	+3.3077	+ 26	−56 37 34.31	−20.191	−278
469	[γ Muscae]	3.9	12 27 15.451	+3.5425	− 81	−71 39 9.27	−19.926	− 22
470	8 Can. ven.	4.3	12 29 36.861	+2.8559	−625	+41 49 48.17	−19.599	+280
472	κ Draconis	3.6	12 29 46.567	+2.5781	−117	+70 16 3.60	−19.869	+ 7
471	β Corvi	2.6	12 29 48.833	+3.1454	− 4	−22 54 56.74	−19.935	− 59
473	24 Comae seq.	5.1	12 30 46.021	+3.0117	+ 2	+18 51 21.14	−19.847	+ 18
474	α Muscae	2.8	12 31 59.047	+3.5427	− 55	−68 39 22.95	−19.883	− 32
475	[χ Virginis]	4.9	12 34 45.284	+3.0943	− 49	− 7 31 1.09	−19.853	− 37
476	γ Centauri	2.3	12 36 42.712	+3.2929	−205	−48 28 55.67	−19.809	− 19
477	[γ Virgin. m.]	3.5,3.5	12 37 15.063	+3.0387	−375	− 0 58 20.79	−19.776	+ 5
478	76 Ursae maj.	6.2	12 37 46.163	+2.6342	− 45	+63 11 26.08	−19.791	− 17
479	[Hydr. 330 G.]	5.9	12 39 22.094	+3.1907	− 26	−27 50 48.15	−19.801	− 50
480	[β Muscae]	3.2	12 40 55.986	+3.6442	− 53	−67 37 55.30	−19.758	− 31

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
481	β Crucis	1.4	12 42 37.723	+3.4814	− 59	−59 12 47.92	−19.727	− 27
482	n Centauri	4.4	12 48 36.751	+3.3107	+ 45	−39 42 21.60	−19.634	− 37
483	ε Ursae maj.	1.7	12 50 12.339	+2.6486	+137	+56 25 54.72	−19.578	− 11
484	δ Virginis	3.4	12 51 13.230	+3.0210	−315	+ 3 52 11.91	−19.610	− 63
485	12 Can. ven. sq.	2.8	12 51 57.625	+2.8113	−199	+38 47 16.84	−19.482	+ 50
486	8 Draconis	5.2	12 52 0.963	+2.3984	− 15	+65 54 36.99	−19.565	− 34
487	[δ Muscae]	3.6	12 56 16.069	+4.0730	+527	−71 4 47.53	−19.481	− 36
488	ε Virginis	2.8	12 57 50.769	+2.9866	−185	+11 25 35.53	−19.393	+ 18
489	[ξ² Centauri]	4.3	13 1 49.466	+3.4852	− 35	−49 26 26.09	−19.350	− 30
490	ϑ Virginis	4.3	13 5 26.633	+3.1036	− 24	− 5 4 29.32	−19.273	− 39
491	[17 Can. ven.]	6.1	13 6 3.646	+2.7595	− 59	+38 57 39.53	−19.187	+ 32
492	43 Comae	4.2	13 7 48.886	+2.8024	−602	+28 19 8.03	−18.296	+879
493	[η Muscae]	5.0	13 9 20.407	+4.0274	− 33	−67 26 1.89	−19.165	− 30
494	[20 Can. ven.]	4.6	13 13 38.619	+2.6945	−107	+41 1 49.03	−19.011	+ 8
495	γ Hydrae	3.1	13 14 11.336	+3.2556	+ 51	−22 42 46.39	−19.058	− 53
496	ι Centauri	2.9	13 15 42.056	+3.3611	−293	−36 15 13.34	−19.054	− 92
497	ζ Urs. maj. pr.	2.2	13 20 25.508	+2.4215	+144	+55 22 46.03	−18.850	− 25
498	α Virginis	1.1	13 20 36.454	+3.1569	− 28	−10 42 27.11	−18.852	− 33
499	Gr. 2001	6.2	13 23 54.864	+1.5263	+ 35	+72 50 35.03	−18.732	− 15
500	69 H. Urs. maj.	5.5	13 25 15.633	+2.2067	−110	+60 23 41.65	−18.637	+ 37
501	ζ Virginis	3.3	13 30 15.533	+3.0549	−190	− 0 9 5.30	−18.476	+ 35
502	17 H. Can. ven.	4.9	13 30 54.807	+2.6810	+ 64	+37 37 40.08	−18.503	− 14
503	[Chamael. 49 G.]	6.4	13 31 43.628	+5.0441	− 49	−75 14 25.68	−18.475	− 14
504	ε Centauri	2.4	13 34 22.004	+3.7792	− 37	−53 1 28.13	−18.404	− 34
505	[Gr. 2029]	5.9	13 35 5.495	+1.4365	− 86	+71 41 5.32	−18.345	0
506	[i Centauri]	4.3	13 40 44.347	+3.3992	−371	−32 36 14.92	−18.296	−156
507	τ Bootis	4.5	13 43 7.671	+2.8509	−340	+17 53 23.85	−18.022	+ 29
509	η Ursae maj.	1.8	13 44 6.861	+2.3680	−119	+49 44 49.72	−18.033	− 20
508	[υ Centauri]	3.3	13 44 22.164	+3.5997	− 28	−42 2 26.05	−18.022	− 19
510	89 Virginis	5.2	13 45 8.503	+3.2545	− 69	−17 42 4.13	−18.011	− 38
511	[i Draconis]	4.8	13 48 53.478	+1.7524	0	+65 9 10.23	−17.828	− 2
512	ζ Centauri	2.6	13 50 6.291	+3.7246	− 70	−46 51 37.95	−17.837	− 60
513	η Bootis	2.8	13 50 32.537	+2.8570	− 42	+18 50 0.35	−18.123	−364
514	[Cent. 294 G.]	4.9	13 51 20.447	+4.3065	− 46	−63 15 38.14	−17.761	− 35
515	[47 Hydrae]	5.5	13 53 38.040	+3.3595	− 34	−24 32 52.88	−17.672	− 40
516	τ Virginis	4.2	13 57 13.067	+3.0514	+ 13	+ 1 57 54.27	−17.510	− 30
517	11 Bootis	6.3	13 57 13.830	+2.7219	− 57	+27 48 22.99	−17.472	+ 8
518	β Centauri	1	13 57 40.396	+4.2045	− 28	−59 57 13.89	−17.501	− 40
519	[π Hydrae]	3.4	14 1 24.784	+3.4088	+ 29	−26 15 49.49	−17.451	−153
520	ϑ Centauri	2.1	14 1 33.419	+3.5188	−439	−35 56 32.80	−17.822	−530

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
521	α Draconis	3.4	14ʰ 2ᵐ 1ˢ.982	+1ˢ.6231	− 83	+64° 47′ 29″.17	−17″.254	+ 17
522	*d* Bootis	4.9	14 6 25.906	+2.7373	− 12	+25 30 12.12	−17.141	− 69
523	ϰ Virginis	4.2	14 8 15.155	+3.1964	+ 4	− 9 52 9.22	−16.854	+ 134
524	4 Ursae min.	5.0	14 9 10.120	−0.2851	− 113	+77 57 22.82	−16.913	+ 32
525	ι Virginis	4.0	14 11 27.011	+3.1421	− 14	− 5 35 9.14	−17.269	− 431
526	α Bootis	1	14 11 41.564	+2.7357	− 778	+19 38 5.72	−18.826	−2000
527	λ Bootis	4.0	14 13 4.642	+2.2826	− 177	+46 29 14.62	−16.608	+ 152
528	[ι Bootis]	4.6	14 13 5.126	+2.1261	− 159	+51 46 5.42	−16.674	+ 86
529	[υ Centauri]	4.4	14 14 14.262	+4.1626	− 47	−55 59 10.98	−16.744	− 39
530	[Circini 10 G.]	5.9	14 17 52.370	+4.9218	− 41	−67 48 1.50	−16.562	− 36
531	ϑ Bootis	3.9	14 22 14.132	+2.0431	− 257	+52 15 9.01	−16.712	− 404
532	[52 Hydrae]	5.1	14 23 4.409	+3.5045	− 28	−29 6 4.31	−16.295	− 30
533	[φ Virginis]	5.0	14 23 43.096	+3.0887	− 90	− 1 50 18.54	−16.239	− 7
534	ρ Bootis	3.7	14 28 4.851	+2.5863	− 75	+30 45 10.21	−15.892	+ 113
535	γ Bootis	2.9	14 28 34.518	+2.4171	− 93	+38 41 18.08	−15.834	+ 145
536	[Gr. 2125]	6.4	14 29 21.076	+1.6278	− 59	+60 36 31.32	−15.919	+ 19
537	η Centauri	2.5	14 29 58.605	+3.7956	− 36	−41 46 34.51	−15.941	− 36
538	α Centauri[1])	1	14 33 40.828	+4.0521	−4870	−60 28 36.95	−14.990	+ 715
539	[α Circini]	3.3	14 35 27.627	+4.8064	− 320	−64 35 48.99	−15.846	− 238
540	[33 Bootis]	5.5	14 35 35.977	+2.2331	− 68	+44 46 46.69	−15.626	− 26
541	[α Lupi]	2.4	14 36 8.203	+3.9736	− 20	−47 0 55.58	−15.607	− 36
543	ζ Bootis m.	3.6	14 36 59.622	+2.8639	+ 37	+14 6 3.37	−15.550	− 27
542	α Apodis	3.8	14 36 59.893	+7.2894	− 57	−78 40 35.84	−15.558	− 35
544	[*c*¹ Centauri]	4.1	14 38 19.862	+3.6583	− 61	−34 47 58.93	−15.647	− 198
545	μ Virginis	3.9	14 38 28.398	+3.1582	+ 69	− 5 16 50.04	−15.768	− 327
546	[*b* Lupi]	5.9	14 40 55.693	+4.1756	− 24	−52 0 57.48	−15.396	− 92
547	109 Virginis	3.7	14 41 50.952	+3.0309	− 75	+ 2 15 31.94	−15.291	− 39
548	α Librae	2.7	14 46 3.754	+3.3135	− 77	−15 40 51.11	−15.083	− 73
549	Gr. 2164	5.8	14 49 13.797	+1.5195	− 170	+59 38 49.77	−14.695	+ 130
550	β Ursae min.	2.0	14 50 56.788	−0.2079	− 78	+74 30 39.85	−14.716	+ 7
551	P. XIV, 221	6.0	14 52 6.807	+2.8307	− 10	+14 47 50.12	−14.672	− 18
552	β Lupi	2.7	14 52 49.604	+3.9143	− 51	−42 47 3.20	−14.672	− 60
553	[ϰ Centauri]	3.2	14 53 29.744	+3.8898	− 21	−41 45 20.68	−14.604	− 33
554	[2 H. Urs. min.]	4.8	14 56 11.710	+0.9433	− 148	+66 16 43.80	−14.374	+ 34
555	β Bootis	3.3	14 58 40.133	+2.2600	− 36	+40 43 59.40	−14.299	− 43
556	γ Scorpii	3.4	14 58 58.460	+3.5044	− 57	−24 56 26.73	−14.293	− 55
557	ψ Bootis	4.5	15 0 43.053	+2.5705	− 131	+27 17 10.69	−14.145	− 15
558	ζ Lupi	3.4	15 6 1.584	+4.2899	− 133	−51 46 7.80	−13.870	− 72
559	[ι Librae]	4.6	15 7 15.538	+3.4138	− 32	−19 27 47.42	−13.766	− 47
561	[β Circini]	4.2	15 10 41.566	+4.6704	− 130	−58 28 37.51	−13.647	− 149

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
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560	γ Triang. austr.	2.9	15 10 46.264	+5.5535	−101	−68 21 32.80	−13.530	− 37
562	[3 Serpentis]	5.5	15 10 51.810	+2.9803	− 12	+ 5 15 42.02	−13.494	− 7
563	δ Bootis	3.2	15 11 59.717	+2.4191	+ 73	+33 38 19.80	−13.535	− 122
564	β Librae	2.5	15 12 19.396	+3.2247	− 64	− 9 3 45.30	−13.419	− 27
565	1 H. Urs. min.	5.3	15 13 38.111	+0.6770	+386	+67 40 36.91	−13.702	− 396
566	φ¹ Lupi	3.5	15 16 16.841	+3.7965	− 82	−35 56 47.37	−13.227	− 95
569	γ Ursae min.	3.0	15 20 51.433	−0.1184	− 32	+72 8 36.84	−12.811	+ 16
568	μ Bootis	4.1	15 21 12.208	+2.2661	−123	+37 40 54.29	−12.724	+ 81
570	[τ¹ Serpentis]	5.5	15 21 45.246	+2.7813	− 11	+15 43 59.78	−12.791	− 24
567	[κ¹ Apodis]	5.9	15 22 0.464	+6.4649	+ 5	−73 5 20.08	−12.788	− 37
571	ι Draconis	3.2	15 22 59.551	+1.3313	− 5	+59 16 13.87	−12.669	+ 14
572	β Coron. bor.	3.7	15 24 14.514	+2.4736	−131	+29 24 18.06	−12.523	+ 76
573	ν¹ Bootis	4.8	15 27 48.240	+2.1546	+ 10	+41 7 44.81	−12.368	− 13
574	[ε Triang. austr.]	4.3	15 28 44.604	+5.4496	+ 29	−66 1 31.76	−12.372	− 82
575	γ Lupi	2.9	15 29 20.239	+3.9855	− 26	−40 52 30.33	−12.288	− 39
576	[ϑ Coron. bor.]	4.1	15 29 25.260	+2.4185	− 17	+31 39 7.64	−12.269	− 26
577	γ Librae	4.1	15 30 39.425	+3.3517	+ 43	−14 30 0.15	−12.154	+ 3
578	α Coron. bor.	2.2	15 31 0.237	+2.5397	+ 93	+27 0 24.73	−12.232	− 98
579	[3 H. Scorpii]	3.9	15 31 44.329	+3.6348	− 11	−27 50 51.68	−12.093	− 11
580	[φ Bootis]	5.3	15 34 42.125	+2.1544	+ 58	+40 38 10.14	−11.822	+ 52
581	[γ Coron. bor.]	3.8	15 39 5.343	+2.5192	− 74	+26 34 14.11	−11.529	+ 34
582	α Serpentis	2.5	15 39 58.894	+2.9532	+ 91	+ 6 41 55.18	−11.457	+ 42
583	β Serpentis	3.4	15 42 10.306	+2.7680	+ 51	+15 41 36.24	−11.396	− 55
584	κ Serpentis	4.0	15 44 49.387	+2.6998	− 31	+18 24 34.40	−11.248	− 98
585	μ Serpentis	3.3	15 45 4.691	+3.1281	− 59	− 3 9 52.96	−11.163	− 31
587	[12 H. Dracon.]	5.3	15 45 20.217	+0.9076	+ 55	+62 52 5.45	−11.174	− 62
586	[χ Lupi]	4.1	15 45 25.558	+3.8036	− 15	−33 21 46.25	−11.136	− 30
588	ε Serpentis	3.5	15 46 28.679	+2.9885	+ 84	+ 4 44 19.99	−10.970	+ 59
590	ζ Ursae min.	4.3	15 47 8.391	−2.2099	+ 60	+78 3 45.45	−10.981	− 1
589	β Triang. austr.	2.9	15 47 27.979	+5.2565	−280	−63 9 47.32	−11.364	− 407
591	[γ Serpentis]	3.7	15 52 26.019	+2.7696	+212	+15 56 41.39	−11.885	−1295
592	[π Scorpii]	4.1	15 53 35.110	+3.6229	− 15	−25 51 52.31	−10.542	− 37
593	ε Coron. bor.	4.0	15 53 59.095	+2.4826	− 61	+27 7 44.96	−10.543	− 68
594	δ Scorpii	2.3	15 55 11.178	+3.5423	− 8	−22 22 29.88	−10.422	− 36
595	[Gr. 2296]	5.1	15 55 43.452	+1.4194	−187	+54 59 42.75	−10.234	+ 111
598	ϑ Draconis	3.8	16 0 15.433	+1.1204	−402	+58 47 50.40	− 9.663	+ 340
596	[δ Normae]	4.8	16 0 20.216	+4.2279	− 5	−44 56 17.40	− 9.991	+ 6
597	β Scorpii	2.6	16 0 22.529	+3.4836	− 7	−19 34 5.33	−10.021	− 27
599	[ϑ Lupi]	4.4	16 0 52.476	+3.9301	− 29	−36 33 58.58	− 9.997	− 41
601	[φ Herculis]	4.0	16 6 1.675	+1.8891	− 23	+45 9 44.90	− 9.532	+ 31

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
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600	[ϰ Normae]	5.3	16 6 36.502	+4.7116	− 42	−54 24 23.75	−9.583	− 65
602	[δ Triang. austr.]	4.0	16 7 30.560	+5.4336	+ 7	−63 27 52.01	−9.475	− 26
603	δ Ophiuchi	2.8	16 9 47.092	+3.1414	− 30	− 3 28 16.00	−9.422	−150
606	19 Ursae min.	5.8	16 13 17.315	−1.7519	− 4	+76 5 49.29	−8.988	+ 12
604	γ² Normae	4.2	16 13 19.416	+4.4739	−190	−49 56 34.83	−9.058	− 61
605	ε Ophiuchi	3.2	16 13 42.979	+3.1716	+ 53	− 4 28 52.49	−8.935	+ 31
607	[σ Scorpii]	3.1	16 15 53.844	+3.6413	− 11	−25 23 5.73	−8.829	− 33
608	τ Herculis	3.6	16 17 7.496	+1.8021	− 9	+46 31 12.19	−8.666	+ 32
609	γ Herculis	3.5	16 18 4.879	+2.6451	− 36	+19 21 24.33	−8.583	+ 40
610	[ζ Triang. austr.]	5.2	16 19 5.641	+6.4110	+366	−69 53 22.60	−8.461	+ 83
612	[η Ursae min.]	5.1	16 20 1.928	−1.7913	−215	+75 57 22.53	−8.213	+256
611	γ Apodis	3.9	16 20 4.258	+9.0983	−385	−78 42 12.86	−8.536	− 70
613	[ω Herculis]	4.7	16 21 23.997	+2.7673	+ 28	+14 13 57.98	−8.429	− 68
614	[Gr. 2343]	5.8	16 22 31.098	+1.3098	+ 20	+55 24 9.26	−8.254	+ 18
615	η Draconis	2.7	16 22 48.589	+0.8066	− 28	+61 42 39.36	−8.188	+ 61
616	α Scorpii	1.2	16 24 4.218	+3.6738	− 7	−26 14 23.33	−8.176	− 28
618	β Herculis	2.6	16 26 28.757	+2.5780	− 69	+21 40 42.54	−7.975	− 21
617	[λ Ophiuchi]	3.7	16 26 31.453	+3.0237	− 23	+ 2 10 24.48	−8.041	− 90
619	A Draconis	5.0	16 28 8.826	−0.1308	− 51	+68 57 23.04	−7.786	+ 35
620	[τ Scorpii]	2.9	16 30 27.814	+3.7296	− 11	−28 2 11.11	−7.667	− 33
621	σ Herculis	4.1	16 31 17.873	+1.9334	− 6	+42 36 57.36	−7.528	+ 38
622	ζ Ophiuchi	2.6	16 32 21.997	+3.3009	+ 9	−10 23 30.11	−7.457	+ 22
623	[Gr. 2373]	6.5	16 34 22.048	−2.6274	−316	+77 37 12.98	−7.042	+275
624	[24 Scorpii]	5.2	16 36 32.353	+3.4662	− 18	−17 34 28.54	−7.142	− 2
625	α Triang. austr.	1.9	16 39 26.456	+6.3221	+ 32	−68 52 9.74	−6.951	− 49
626	η Herculis	3.3	16 39 54.779	+2.0561	+ 34	+39 5 13.90	−6.947	− 84
627	Gr. 2377	4.9	16 43 38.719	+1.1354	+ 29	+56 56 13.06	−6.498	+ 58
628	ε Scorpii	2.3	16 44 31.497	+3.8798	−501	−34 8 10.09	−6.737	−254
629	49 Herculis	6.5	16 48 7.158	+2.7303	+ 12	+15 7 9.99	−6.191	− 6
630	ζ² Scorpii	3.8	16 48 27.412	+4.2129	−134	−42 12 47.61	−6.394	−238
631	ζ Arae	3.0	16 51 24.930	+4.9525	− 30	−55 51 13.73	−5.957	− 48
632	[ε¹ Arae]	4.0	16 52 38.645	+4.7698	− 19	−53 1 40.21	−5.815	− 8
633	ϰ Ophiuchi	3.2	16 53 32.966	+2.8382	−198	+ 9 30 34.25	−5.744	− 13
634	ε Herculis	3.6	16 56 57.630	+2.2947	− 35	+31 3 13.98	−5.421	+ 24
635	[60 Herculis]	4.9	17 1 20.586	+2.7808	+ 34	+12 51 34.31	−5.090	− 15
636	[Gr. 2415]	6.4	17 4 56.426	+1.9560	− 29	+40 37 45.27	−4.798	− 28
637	η Ophiuchi	2.4	17 5 23.224	+3.4379	+ 23	−15 37 4.98	−4.641	+ 90
638	[η Scorpii]	3.4	17 5 55.152	+4.2912	+ 17	−43 7 31.66	−4.984	−298
639	ζ Draconis	3.0	17 8 31.934	+0.1679	− 28	+65 49 18.19	−4.442	+ 22
640	α Herculis	(3.0)	17 10 40.787	+2.7344	− 8	+14 29 19.43	−4.252	+ 29

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
641	δ Herculis	3.0	17h 11m 27s.457	+2s.4635	− 15	+24° 56′ 28″.07	−4″.373	−159
643	π Herculis	3.1	17 12 0.986	+2.0888	− 21	+36 54 23.82	−4.165	+ 1
642	[ι Apodis]	5.7	17 12 23.149	+6.6704	− 14	−70 1 59.27	−4.161	− 27
644	ϑ Ophiuchi	3.2	17 16 39.886	+3.6816	− 7	−24 54 48.86	−3.792	− 25
645	β Arae	2.7	17 18 3.868	+4.9796	− 14	−55 26 55.63	−3.689	− 42
646	[d Ophiuchi]	4.5	17 21 47.815	+3.8276	+ 6	−29 47 21.02	−3.471	−145
647	[27 H. Ophiuchi]	4.5	17 22 0.869	+3.1823	− 58	− 5 0 37.92	−3.358	− 51
648	δ Arae	3.6	17 23 14.520	+5.4080	− 70	−60 36 44.48	−3.302	−101
650	[x Herculis]	6.0	17 24 25.850	+1.5892	+ 2	+48 19 56.95	−3.117	− 19
649	[υ Scorpii]	2.8	17 24 50.722	+4.0737	− 24	−37 13 38.47	−3.102	− 39
651	α Arae	2.8	17 25 6.828	+4.6323	− 39	−49 48 29.82	−3.133	− 94
652	λ Scorpii	1.7	17 27 41.915	+4.0698	− 14	−37 2 28.52	−2.848	− 32
653	β Draconis	2.7	17 28 27.981	+1.3543	− 15	+52 21 55.36	−2.740	+ 10
655	[ν¹ Draconis]	4.7	17 30 27.746	+1.1803	+176	+55 14 35.96	−2.526	+ 51
657	[ν² Draconis]	4.8	17 30 33.152	+1.1815	+182	+55 13 54.63	−2.517	+ 52
656	α Ophiuchi	2.1	17 30 53.717	+2.7837	+ 79	+12 37 21.24	−2.772	−233
654	ϑ Scorpii	1.9	17 31 3.898	+4.3064	0	−42 56 36.62	−2.542	− 18
659	[f Draconis]	5.2	17 32 18.587	−0.2458	− 32	+68 11 25.83	−2.282	+134
658	ξ Serpentis	3.5	17 32 36.231	+3.4332	− 34	−15 20 40.77	−2.455	− 64
660	[κ Scorpii]	2.5	17 36 28.036	+4.1471	− 15	−38 59 9.72	−2.081	− 26
663	ι Herculis	3.6	17 37 0.504	+1.6927	− 5	+46 3 7.37	−2.011	− 4
661	η Pavonis	3.5	17 37 11.429	+5.8814	− 22	−64 41 0.03	−2.048	− 56
662	[μ Arae]	5.6	17 37 14.081	+4.7589	− 29	−51 47 19.57	−2.196	−208
664	ω Draconis	4.9	17 37 27.519	−0.3546	+ 13	+68 47 53.76	−1.645	+323
665	β Ophiuchi	2.8	17 39 10.448	+2.9627	− 27	+ 4 36 10.06	−1.666	+153
666	[ι¹ Scorpii]	3.0	17 41 29.870	+4.1930	− 10	−40 5 38.97	−1.619	− 3
667	μ Herculis	3.3	17 43 3.159	+2.3466	−242	+27 46 15.26	−2.231	−750
670	ψ Drac. austr.	4.7	17 43 28.961	−1.0741	+ 28	+72 11 30.55	−1.710	−267
668	[γ Ophiuchi]	3.7	17 43 31.790	+3.0073	− 16	+ 2 44 21.08	−1.517	− 77
669	[G Scorpii]	3.1	17 43 56.106	+4.0819	+ 42	−37 0 59.35	−1.378	+ 26
671	ξ Draconis	3.6	17 52 1.453	+1.0369	+120	+56 53 9.56	−0.621	+ 76
672	ϑ Herculis	3.8	17 53 16.141	+2.0568	+ 4	+37 15 41.23	−0.584	+ 5
675	35 Draconis	5.1	17 53 20.509	−2.6903	+118	+76 58 30.04	−0.341	+241
673	ν Ophiuchi	3.4	17 54 14.185	+3.3018	− 7	− 9 45 49.41	−0.622	−118
674	[ξ Herculis]	3.7	17 54 23.028	+2.3308	+ 66	+29 15 23.48	−0.517	− 26
676	γ Draconis	2.3	17 54 35.133	+1.3922	− 9	+51 29 55.28	−0.496	− 22
677	67 Ophiuchi	4.0	17 56 17.245	+3.0041	0	+ 2 56 5.83	−0.338	− 13
678	[Apodis 66 G.]	6.0	17 59 5.237	+8.3861	− 49	−75 53 42.41	−0.349	−270
679	γ Sagittarii	3.0	18 0 13.093	+3.8527	− 48	−30 25 33.90	−0.175	−194
680	72 Ophiuchi	3.6	18 3 13.482	+2.8436	− 42	+ 9 33 2.52	+0.361	+ 79

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
681	ο Herculis	3.8	18 4 8.910	+2.3398	+ 2	+28 44 59.32	+0.363	0
682	μ Sagittarii	3.9	18 8 33.606	+3.5872	— 3	—21 4 57.07	+0.745	— 3
683	[η Sagittarii]	3.1	18 11 44.374	+4.0589	— 118	—36 47 19.29	+0.863	—163
684	[Gr. 2533]	5.6	18 12 56.382	+1.8652	— 6	+42 7 44.67	+1.124	— 7
685	[36 Draconis]	5.0	18 13 23.752	+0.3454	+ 533	+64 22 3.58	+1.200	+ 29
686	[ξ Pavonis]	4.2	18 15 12.518	+5.5295	— 26	—61 32 3.75	+1.346	+ 17
687	[δ Sagittarii]	2.7	18 15 25.455	+3.8410	+ 27	—29 51 57.45	+1.316	— 32
688	η Serpentis	3.2	18 16 48.468	+3.1034	— 373	— 2 55 20.07	+0.771	—698
689	ε Sagittarii	1.9	18 18 23.836	+3.9826	— 30	—34 25 35.75	+1.480	—127
690	109 Herculis	3.9	18 19 59.421	+2.5560	+ 140	+21 43 45.75	+1.489	—257
691	α Telescopii	3.7	18 20 31.358	+4.4496	— 21	—46 1 2.07	+1.745	— 47
693	[φ Draconis]	4.3	18 22 0.378	—0.8572	— 17	+71 17 30.10	+1.955	+ 33
692	[λ Sagittarii]	2.8	18 22 36.081	+3.7024	— 37	—25 28 14.36	+1.786	—188
695	χ Draconis	3.6	18 22 37.589	—1.0794	+1165	+72 41 43.27	+1.611	—365
694	*b* Draconis	5.1	18 22 38.416	+0.8765	— 45	+58 45 0.03	+2.036	+ 59
696	[2 H. Scuti]	4.8	18 24 14.326	+3.4190	— 3	—14 37 19.39	+2.118	+ 2
697	[ϑ Coron. austr.]	4.7	18 27 17.407	+4.2847	+ 14	—42 22 34.00	+2.358	— 24
698	ζ Pavonis	4.0	18 32 52.498	+7.0240	— 26	+71 30 15.40	+2.688	—178
700	[Gr. 2655]	6.1	18 33 57.495	—2.8806	— 10	+77 28 47.51	+2.957	— 3
699	α Lyrae	1	18 33 59.557	+2.0312	+ 176	+38 42 7.51	+3.243	+281
701	[Gr. 2640]	6.2	18 35 56.920	+0.1900	+ 19	+65 24 38.66	+3.216	+ 84
702	[5 H. Scuti]	5.1	18 38 46.976	+3.2675	+ 13	— 8 21 43.00	+3.386	+ 9
703	110 Herculis	4.1	18 41 55.035	+2.5810	— 12	+20 27 44.36	+3.306	—340
704	λ Pavonis	4.3	18 44 9.518	+5.5672	— 26	—62 17 18.41	+3.811	— 27
705	β Lyrae	(3.3)	18 46 52.064	+2.2146	+ 3	+33 15 39.93	+4.069	— 2
706	σ Sagittarii	2.1	18 49 52.271	+3.7209	+ 4	—26 24 20.55	+4.265	— 63
707	ο Draconis	4.6	18 49 55.112	+0.8872	+ 105	+59 16 54.20	+4.356	+ 24
708	λ Telescopii	5.1	18 51 30.285	+4.8051	+ 3	—53 3 12.01	+4.482	+ 14
709	ϑ Serpent. pr.	4.5	18 51 53.672	+2.9824	+ 29	+ 4 5 22.40	+4.528	+ 28
710	[ξ Sagittarii]	3.6	18 52 32.416	+3.5797	+ 18	—21 13 18.77	+4.539	— 16
711	*R* Lyrae	(4.5)	18 52 41.281	+1.8262	+ 28	+43 49 51.31	+4.644	+ 76
714	[υ Draconis]	5.0	18 55 28.058	—0.7241	+ 104	+71 10 51.87	+4.845	+ 40
712	[ε Aquilae]	4.0	18 55 40.409	+2.7220	— 42	+14 56 57.77	+4.742	— 80
713	γ Lyrae	3.2	18 55 41.328	+2.2436	— 4	+32 34 10.51	+4.822	— 2
715	[ζ Sagittarii]	2.7	18 57 4.621	+3.8185	— 21	—30 0 19.07	+4.943	+ 2
716	ζ Aquilae	3.0	19 1 24.673	+2.7569	— 7	+13 44 0.10	+5.207	—101
717	λ Aquilae	3.2	19 1 37.931	+3.1840	— 16	— 5 0 49.66	+5.239	— 87
718	α Coron. austr.	4.1	19 3 33.258	+4.0842	+ 59	—38 2 27.33	+5.378	—109
719	[ι Lyrae]	5.2	19 4 11.824	+2.1405	— 3	+35 57 47.37	+5.538	— 3
720	π Sagittarii	2.9	19 4 35.435	+3.5690	— 5	—21 9 46.01	+5.540	— 35

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
721	[Pavonis 60 G.]	5.7	19h 8m 27s.581	+6s.0535	− 7	−66° 48′ 44″.57	+ 5″.878	− 21
723	δ Draconis	3.0	19 12 32.293	+0.0220	+ 167	+67 30 30.48	+ 6.327	+ 87
722	[d Sagittarii]	5.2	19 12 32.736	+3.5113	− 12	−19 6 30.65	+ 6.231	− 9
724	ϑ Lyrae	4.3	19 13 20.876	+2.0816	− 7	+37 58 41.44	+ 6.305	− 1
725	ω Aquilae	5.4	19 13 43.968	+2.8158	− 3	+11 26 15.99	+ 6.352	+ 13
726	ϰ Cygni	3.8	19 15 5.567	+1.3877	+ 69	+53 12 27.03	+ 6.571	+ 119
727	[υ Sagittarii]	4.5	19 16 44.741	+3.4374	0	−16 7 8.62	+ 6.586	− 2
729	τ Draconis	4.5	19 17 13.978	−1.1356	− 324	+73 11 39.44	+ 6.738	+ 110
728	α Sagittarii	4.0	19 17 51.610	+4.1612	+ 18	−40 46 49.66	+ 6.562	− 118
730	δ Aquilae	3.3	19 21 6.721	+3.0249	+ 168	+ 2 56 25.94	+ 7.028	+ 81
731	[Sagittar. 186 G.]	5.8	19 21 26.673	+3.7942	+ 7	−29 54 57.92	+ 6.928	− 47
734	[Gr. 2900]	6.4	19 26 58.784	−3.5694	+ 95	+79 25 45.41	+ 7.391	− 35
732	β Cygni	3.0	19 27 12.748	+2.4189	− 2	+27 46 34.66	+ 7.438	− 8
733	ι Cygni	3.9	19 27 30.775	+1.5133	+ 23	+51 32 38.20	+ 7.594	+ 125
735	[ι Telescopii]	5.1	19 28 45.840	+4.4567	− 42	−48 17 15.31	+ 7.531	− 40
736	h Sagittarii	4.6	19 31 24.859	+3.6534	+ 46	−25 4 35.20	+ 7.763	− 22
737	[ϰ Aquilae]	5.0	19 32 12.715	+3.2287	+ 3	− 7 13 17.91	+ 7.850	0
738	ϑ Cygni	4.5	19 34 6.501	+1.6085	− 28	+50 1 8.76	+ 8.249	+ 247
739	[ν Telescopii]	5.5	19 40 55.198	+4.9127	+ 86	−56 34 21.23	+ 8.408	− 137
740	[15 Cygni]	5.2	19 41 8.323	+2.1631	+ 59	+37 8 37.09	+ 8.597	+ 35
741	γ Aquilae	2.7	19 42 7.413	+2.8521	+ 9	+10 24 2.02	+ 8.639	0
742	δ Cygni	2.8	19 42 15.363	+1.8756	+ 51	+44 55 4.31	+ 8.690	+ 39
743	δ Sagittae	3.8	19 43 30.505	+2.6749	+ 4	+18 19 8.26	+ 8.762	+ 13
744	[51 Aquilae]	5.8	19 45 59.656	+3.3026	− 21	−10 59 5.73	+ 8.985	+ 41
745	α Aquilae	1	19 46 32.309	+2.9271	+ 360	+ 8 38 16.25	+ 9.369	+ 382
746	[η Aquilae]	(4.0)	19 48 2.497	+3.0569	+ 6	+ 0 46 53.75	+ 9.095	− 9
747	ε Draconis	3.8	19 48 28.419	−0.1881	+ 156	+70 2 46.79	+ 9.167	+ 29
748	ε Pavonis	3.8	19 50 32.853	+6.9941	+ 146	−73 8 28.88	+ 9.167	− 132
749	β Aquilae	3.7	19 51 2.388	+2.9468	+ 24	+ 6 11 19.52	+ 8.857	− 480
750	ψ Cygni	5.0	19 53 22.855	+1.5516	− 43	+52 12 27.17	+ 9.487	− 31
751	ϑ¹ Sagittarii	4.3	19 54 4.533	+3.9094	− 12	−35 30 44.49	+ 9.535	− 36
752	γ Sagittae	3.6	19 54 53.268	+2.6675	+ 43	+19 15 18.66	+ 9.657	+ 24
753	[c Sagittarii]	4.6	19 57 18.630	+3.6929	+ 21	−27 57 8.94	+ 9.836	+ 18
754	δ Pavonis	3.5	20 0 12.097	+5.9168	+1959	−66 24 17.95	+ 8.873	−1165
755	[ξ Telescopii]	5.2	20 0 43.434	+4.6086	− 44	−53 7 50.69	+10.076	− 2
756	ϑ Aquilae	3.1	20 6 48.992	+3.0962	+ 22	− 1 4 48.87	+10.540	+ 5
757	o¹ Cygni sq.	4.3	20 10 53.524	+1.8891	+ 4	+46 28 37.01	+10.837	+ 1
758	[33 Cygni]	4.3	20 11 22.571	+1.3964	+ 74	+56 18 4.46	+10.957	+ 85
759	ϰ Cephei	4.3	20 11 50.325	−1.9630	+ 12	+77 26 59.54	+10.933	+ 27
760	24 Vulpecul.	5.7	20 13 3.715	+2.5669	+ 12	+24 24 8.87	+10.976	− 19

Nr.	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
761	α² Capricorni	3.6	20 13 13.732	+3.3307	+ 40	−12 48 54.60	+11.019	+ 11
762	[β Capricorni]	3.1	20 16 7.472	+3.3728	+ 23	−15 3 24.56	+11.224	+ 6
763	[κ¹ Sagittarii]	5.8	20 16 33.333	+4.0837	+ 37	−42 19 28.42	+11.154	− 96
764	α Pavonis	1.9	20 18 46.341	+4.7666	+ 11	−57 0 52.60	+11.325	− 85
765	γ Cygni	2.3	20 19 6.329	+2.1526	+ 4	+39 58 39.67	+11.434	0
766	[ρ Capricorni]	5.0	20 23 53.992	+3.4248	− 14	−18 6 6.99	+11.760	− 16
767	ϑ Cephei	4.1	20 28 7.442	+1.0117	+ 62	+62 42 5.08	+12.058	− 14
768	ε Delphini	3.9	20 29 3.399	+2.8662	+ 5	+11 0 24.85	+12.113	− 25
769	α Jndi	3.0	20 31 27.114	+4.2312	+ 33	−47 35 44.22	+12.363	+ 60
770	73 Draconis	5.3	20 32 40.131	−0.7550	+ 15	+74 39 23.83	+12.376	− 12
771	β Delphini	3.5	20 33 28.160	+2.8131	+ 74	+14 17 30.65	+12.406	− 36
772	[κ Delphini]	5.1	20 34 54.236	+2.9140	+ 212	+ 9 46 44.87	+12.558	+ 18
773	υ Capricorni	5.5	20 35 5.945	+3.4183	− 17	−18 26 44.37	+12.538	− 16
774	α Delphini	3.7	20 35 35.828	+2.7866	+ 45	+15 36 16.14	+12.582	− 6
775	β Pavonis	3.3	20 37 7.939	+5.4463	− 71	−66 31 0.26	+12.694	+ 2
776	[η Jndi]	4.8	20 37 39.359	+4.4209	+ 157	−52 13 57.24	+12.654	− 73
777	α Cygni	1.3	20 38 27.938	+2.0447	+ 4	+44 58 8.21	+12.781	− 1
778	[δ Delphini]	4.2	20 39 23.837	+2.8008	− 14	+14 45 42.54	+12.797	− 48
779	[ψ Capricorni]	4.2	20 40 56.812	+3.5566	− 44	−25 35 3.37	+12.791	− 157
780	ε Cygni	2.4	20 42 41.437	+2.4270	+ 290	+33 38 37.83	+13.392	+ 327
781	ε Aquarii	3.6	20 42 58.054	+3.2495	+ 17	− 9 48 53.47	+13.055	28
782	[6 H. Cephei]	4.5	20 43 11.587	+1.4900	− 87	+57 16 1.76	+12.864	− 234
783	η Cephei	3.5	20 43 31.329	+1.2250	+ 133	+61 30 2.00	+13.938	+ 818
784	λ Cygni	4.6	20 44 1.148	+2.3358	+ 5	+36 10 13.88	+13.152	0
785	β Jndi	3.6	20 48 1.070	+4.7112	0	−58 46 59.13	+13.387	− 27
786	32 Vulpeculae	5.3	20 50 51.100	+2.5561	− 4	+27 43 34.30	+13.599	+ 1
788	ν Cygni	3.9	20 53 55.744	+2.2355	+ 9	+40 49 53.97	+13.777	− 17
787	[α Octantis]	5.5	20 54 12.828	+7.3882	− 19	−77 21 23.55	+13.457	− 355
789	[11 Aquarii]	6.4	20 55 59.015	+3.1602	+ 23	− 5 4 1.00	+13.791	− 133
790	ζ Microscopii	5.4	20 57 24.601	+3.8420	− 36	−38 58 18.77	+13.892	− 122
792	[ξ Cygni]	3.9	21 1 45.954	+2.1814	+ 12	+43 34 48.85	+14.280	− 3
791	[A Capricorni]	4.6	21 2 2.474	+3.5134	− 30	−25 21 15.39	+14.253	− 47
793	61 Cygni pr.	5.4	21 2 59.772	+2.6860	+3505	+38 19 15.81	+17.610	+3251
794	ν Aquarii	4.4	21 4 51.406	+3.2707	+ 62	−11 43 28.29	+14.462	− 9
795	Br. 2777	6.0	21 7 15.597	−1.1406	+ 74	+77 46 25.63	+14.652	+ 36
797	ζ Cygni	3.1	21 9 13.966	+2.5520	− 1	+29 52 10.35	+14.675	− 58
796	[Jndi 23 G.]	5.9	21 9 33.291	+4.2989	− 19	−53 37 26.44	+14.707	− 46
798	[Gr. 3415]	5.8	21 9 35.379	+1.5284	− 6	+59 37 42.45	+14.753	− 2
799	[τ Cygni]	3.8	21 11 19.044	+2.3935	+ 137	+37 40 24.84	+15.292	+ 435
800	α Equulei	3.9	21 11 28.522	+2.9997	+ 38	+ 4 53 15.24	+14.779	− 87

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			h m s	s		° ′ ″	″	
801	[4 Pisc. austr.]	4.8	21 12 39.937	+3.6447	+ 35	−32 32 12.03	+14.909	− 26
802	[ϑ^1 Microscop.]	4.9	21 15 12.049	+3.8496	+ 70	−41 10 39.89	+15.097	+ 14
803	α Cephei	2.5	21 16 30.231	+1.4339	+ 212	+62 13 0.00	+15.207	+ 49
804	1 Pegasi	4.2	21 18 3.755	+2.7739	+ 74	+19 25 54.16	+15.307	+ 61
805	γ Pavonis	4.2	21 19 15.804	+5.0010	+ 133	−65 45 38.25	+16.103	+ 788
806	ζ Capricorni	3.8	21 21 42.154	+3.4301	− 1	−22 47 19.54	+15.474	+ 23
807	[g Cygni]	5.4	21 26 14.277	+2.2124	+ 48	+46 9 23.44	+15.804	+ 103
808	β Aquarii	2.9	21 26 58.799	+3.1600	+ 11	− 5 57 15.94	+15.737	− 5
809	β Cephei	3.1	21 27 32.559	+0.7861	+ 20	+70 10 43.13	+15.779	+ 7
810	ν Octantis	3.7	21 31 50.470	+6.8017	+ 131	−77 46 37.94	+15.745	− 256
811	74 Cygni	5.1	21 33 27.634	+2.4026	− 3	+40 1 20.10	+16.097	+ 12
812	[γ Capricorni]	3.6	21 35 16.372	+3.3277	+ 131	−17 3 20.71	+16.164	− 16
813	[13 H. Cephei]	6.1	21 36 15.658	+1.8612	+ 7	+57 5 43.03	+16.233	+ 2
814	[ι Pisc.austr.]	4.4	21 39 46.059	+3.5810	+ 18	−33 25 23.56	+16.320	− 89
815	ε Pegasi	2.3	21 39 54.777	+2.9464	+ 18	+ 9 28 32.19	+16.416	0
817	[11 Cephei]	4.8	21 40 39.086	+0.8901	+ 233	+70 54 38.41	+16.551	+ 98
816	[κ Pegasi]	4.1	21 40 42.274	+2.7152	+ 25	+25 14 40.82	+16.465	+ 10
818	[λ Capricorni]	5.5	21 41 51.221	+3.2324	+ 20	−11 46 3.45	+16.509	− 4
819	δ Capricorni	2.8	21 42 14.445	+3.3146	+ 178	−16 31 21.28	+16.238	− 294
820	[ο Indi]	5.6	21 43 26.605	+5.1283	− 87	−70 2 5.80	+16.571	− 21
821	π^2 Cygni	4.3	21 43 34.670	+2.2142	+ 8	+48 54 23.63	+16.594	− 4
822	γ Gruis	3.0	21 48 39.857	+3.6418	+ 77	−37 46 28.37	+16.825	− 18
823	16 Pegasi	5.2	21 49 6.159	+2.7282	+ 4	+25 30 55.32	+16.865	+ 1
824	[δ Indi]	4.6	21 52 0.241	+4.1036	+ 43	−55 24 24.77	+16.971	− 29
825	[ε Indi]	4.9	21 56 42.823	+4.6140	+4812	−57 8 38.53	+14.630	−2585
826	[20 Pegasi]	5.8	21 56 51.018	+2.9219	+ 36	+12 42 9.72	+17.167	− 54
827	α Aquarii	2.9	22 1 18.962	+3.0821	+ 10	− 0 44 34.57	+17.411	− 7
828	ι Aquarii	4.2	22 1 44.413	+3.2429	+ 24	−14 17 31.78	+17.384	− 51
830	20 Cephei	5.7	22 2 21.798	+1.8216	+ 22	+62 21 39.28	+17.523	+ 60
829	α Gruis	1.8	22 2 45.324	+3.7955	+ 119	−47 22 58.48	+17.308	− 171
831	[ι Pegasi]	3.9	22 2 57.585	+2.7910	+ 219	+24 55 11.08	+17.510	+ 22
832	[μ Pisc.austr.]	4.6	22 3 18.591	+3.5064	+ 41	−33 24 48.59	+17.462	− 41
833	[27 Pegasi]	5.8	22 5 22.265	+2.6562	− 42	+32 44 48.96	+17.525	− 65
834	ϑ Pegasi	3.6	22 5 48.683	+3.0264	+ 184	+ 5 46 9.87	+17.639	+ 31
835	π Pegasi	4.3	22 6 7.319	+2.6619	− 9	+32 45 3.34	+17.603	− 19
836	ζ Cephei	3.4	22 7 50.029	+2.0774	+ 14	+57 46 19.46	+17.698	+ 6
837	24 Cephei	4.8	22 8 8.264	+1.1592	+ 54	+71 54 44.92	+17.713	+ 8
838	[λ Pisc.austr.]	5.4	22 9 23.072	+3.4068	+ 16	−28 11 54.81	+17.755	− 1
839	[ε Octantis]	5.3	22 10 19.694	+6.9168	+ 138	−80 52 24.38	+17.754	− 40
840	ϑ Aquarii	4.2	22 12 14.643	+3.1676	+ 76	− 8 13 0.77	+17.852	− 19

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			h m s	s		° ' "	"	
841	α Tucanae	2.8	22 12 33.073	+4.1385	— 98	—60 41 37.39	+17.834	— 49
842	γ Aquarii	3.7	22 17 9.793	+3.0994	+ 83	— 1 49 34.17	+18.068	+ 7
843	[31 Pegasi]	4.9	22 17 14.100	+2.9518	— 1	+11 45 59.30	+18.073	+ 9
844	3 Lacertae	4.5	22 20 8.175	+2.3545	— 15	+51 47 34.11	+17.982	—191
845	[ν Gruis]	5.6	22 23 33.462	+3.5261	+ 24	—39 34 20.43	+18.135	—162
846	[δ¹ Gruis]	4.0	22 24 4.438	+3.5977	+ 17	—43 56 25.58	+18.307	— 8
847	[δ Cephei]	(4.1)	22 25 56.278	+2.2220	+ 17	+57 58 10.52	+18.383	+ 2
848	7 Lacertae	3.8	22 27 42.277	+2.4667	+ 147	+49 50 5.60	+18.459	+ 17
849	[υ Aquarii]	5.5	22 29 56.235	+3.2861	+ 155	—21 9 15.18	+18.374	—144
850	η Aquarii	3.9	22 30 53.177	+3.0835	+ 59	— 0 33 58.63	+18.494	— 55
851	[31 Cephei]	5.2	22 33 37.173	+1.4826	+ 381	+73 11 28.90	+18.662	+ 23
852	10 Lacertae	4.9	22 35 21.316	+2.6879	+ 4	+38 35 49.73	+18.688	— 6
853	[30 Cephei]	5.3	22 35 33.723	+2.1227	+ 1	+63 7 55.11	+18.679	— 22
854	[ε Pisc.austr.]	4.0	22 35 50.760	+3.3235	+ 12	—27 29 51.50	+18.712	+ 2
855	ζ Pegasi	3.3	22 37 7.350	+2.9913	+ 53	+10 22 36.70	+18.737	— 13
856	β Gruis	2.0	22 37 28.585	+3.5953	+ 117	—47 20 24.04	+18.735	— 25
857	η Pegasi	2.9	22 38 55.324	+2.8090	+ 12	+29 45 57.10	+18.772	— 33
858	[13 Lacertae]	5.4	22 40 12.518	+2.6705	— 6	+41 21 44.55	+18.848	+ 5
859	λ Pegasi	3.9	22 42 20.342	+2.8871	+ 41	+23 6 27.02	+18.896	— 10
860	ε Gruis	3.5	22 43 18.271	+3.6395	+ 97	—51 46 28.87	+18.861	— 73
861	[τ Aquarii]	4.0	22 44 59.221	+3.1789	— 12	—14 3 7.43	+18.949	— 33
862	[μ Pegasi]	3.6	22 45 48.157	+2.8930	+ 109	+24 8 30.89	+18.964	— 41
863	ι Cephei	3.5	22 46 34.766	+2.1272	— 114	+65 44 33.44	+18.903	—123
864	λ Aquarii	3.8	22 48 4.597	+3.1313	+ 5	— 8 2 34.17	+19.105	+ 38
865	ρ Indi	6.3	22 48 37.255	+4.2214	— 101	—70 32 19.42	+19.144	+ 62
866	δ Aquarii	3.2	22 50 2.070	+3.1866	— 33	—16 17 1.48	+19.100	— 19
867	α Pisc. austr.	1.2	22 52 50.732	+3.3209	+ 247	—30 5 0.73	+19.032	—159
868	[ζ Gruis]	4.0	22 55 44.957	+3.5592	— 80	—53 13 15.39	+19.248	— 16
869	ο Androm.	3.5	22 57 54.916	+2.7546	+ 25	+41 51 29.21	+19.302	— 13
870	β Pegasi	2.4	22 59 33.279	+2.9049	+ 145	+27 36 38.25	+19.490	+137
871	α Pegasi	2.4	23 0 25.559	+2.9864	+ 41	+14 44 12.86	+19.331	— 41
872	ϑ Gruis	4.2	23 1 58.903	+3.3905	— 52	—43 59 26.09	+19.369	— 38
873	c² Aquarii	3.7	23 4 48.574	+3.2023	+ 32	—21 38 41.44	+19.503	+ 36
874	π Cephei	4.5	23 5 7.623	+1.8995	+ 29	+74 55 1.37	+19.448	— 25
875	Br. 3077	5.8	23 9 5.307	+2.8772	+2526	+56 41 16.10	+19.848	+295
876	[Tucanae 25 G.]	5.9	23 11 44.264	+3.6318	+ 232	—62 28 32.74	+19.550	— 53
877	γ Tucanae	3.9	23 12 21.470	+3.5205	— 59	—58 42 46.29	+19.696	+ 82
878	[γ Piscium]	3.7	23 12 39.294	+3.1094	+ 503	+ 2 48 24.08	+19.637	+ 18
879	γ Sculptoris	4.4	23 14 7.728	+3.2462	+ 10	—33 0 22.19	+19.578	— 68
880	τ Pegasi	4.5	23 16 19.735	+2.9659	+ 21	+23 15 50.06	+19.670	— 13

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			h m s	s		° ′ ″	″	
882	4 Cassiopejae	5.5	23 20 58.040	+2.6518	+ 17	+61 48 18.01	+19.745	− 10
881	[υ Pegasi]	4.4	23 21 2.111	+2.9907	+138	+22 55 29.86	+19.792	+ 35
883	[ο Gruis]	5.7	23 21 44.647	+3.3690	− 4	−53 12 12.12	+19.886	+119
884	κ Piscium	5.1	23 22 28.350	+3.0752	+ 56	+ 0 46 45.00	+19.685	− 93
885	70 Pegasi	4.7	23 24 45.210	+3.0318	+ 38	+12 16 49.40	+19.837	+ 28
886	[β Sculptoris]	4.4	23 28 18.526	+3.2246	+ 65	−38 17 58.48	+19.869	+ 14
887	[72 Pegasi]	5.2	23 29 38.052	+2.9712	+ 40	+30 50 42.08	+19.858	− 12
888	[Aquarii 248 G.]	6.7	23 31 2.828	+3.0956	− 5	− 7 56 45.72	+19.909	+ 23
889	[Phoenicis 11 G.]	4.6	23 33 10.171	+3.2388	+ 47	−45 58 26.68	+19.871	− 37
890	[λ Androm.]	3.8	23 33 18.085	+2.9274	+156	+45 59 11.93	+19.487	−423
891	ι Androm.	4.1	23 33 51.920	+2.9345	+ 27	+42 47 10.56	+19.911	− 5
892	ι Piscium	4.1	23 35 28.483	+3.0844	+247	+ 5 9 16.48	+19.491	−440
893	γ Cephei	3.3	23 35 46.034	+2.4362	−182	+77 8 48.33	+20.091	+157
894	ω² Aquarii	4.5	23 38 12.706	+3.1131	+ 65	−15 1 33.73	+19.893	− 63
895	41 H. Cephei	5.2	23 43 44.536	+2.8482	+ 23	+67 19 24.16	+19.996	+ 1
896	Lac. δ Sculpt.	4.4	23 44 23.763	+3.1293	+ 71	−28 36 41.35	+19.895	−105
897	[Aquarii 268 G.]	6.3	23 45 45.379	+3.0965	+ 86	−10 27 35.31	+20.093	+ 86
898	φ Pegasi	5.4	23 48 3.593	+3.0483	− 8	+18 38 13.33	+19.979	− 39
899	[ρ Cassiopejae]	4.8	23 50 1.817	+2.9823	− 7	+57 0 55.22	+20.031	+ 4
900	[27 Piscium]	5.1	23 54 13.139	+3.0712	− 37	− 4 2 19.25	+19.971	− 68
901	[π Phoenicis]	5.2	23 54 25.441	+3.1190	+ 30	−53 13 55.13	+20.086	+ 46
902	ω Piscium	3.9	23 54 50.565	+3.0792	+100	+ 6 22 53.88	+19.931	−109
903	ε Tucanae	4.5	23 55 24.123	+3.1394	+ 64	−66 3 40.24	+20.009	− 33
904	[θ Octantis]	5.0	23 57 8.216	+3.1262	−220	−77 32 45.70	+19.874	−171
905	[2 Ceti]	4.5	23 59 17.030	+3.0751	+ 12	−17 49 13.05	+20.042	− 4

1) Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist (Peters, Neuer Fundamental Katalog, Seite 98):

$$1913.0:\ \Delta\alpha = -0^s.223 \quad \Delta\delta = -0''.52$$
$$1914.0:\ = -0\ .227 \quad = -0\ .66.$$

2) A. R. der Mitte, Deklination des folgenden helleren Sterns.

3) Ort des Schwerpunkts. Die Reduktion auf den Ort des helleren Sterns beträgt (Peters, Neuer Fundamental-Katalog, Seite 98):

$$1913.0:\ \Delta\alpha = -0^s.048 \quad \Delta\delta = -0''.57$$
$$1914.0:\ = -0\ .053 \quad = -0\ .47.$$

4) Schwerpunkt des Systems. Abstände vom Schwerpunkt (Peters, Neuer Fundamental-Katalog, Seite 99):

heller Stern $1913.0:\ \Delta\alpha = +0^s.686 \quad \Delta\delta = +7''.00$
$\ 1914.0:\ = +0\ .678 \quad = +6\ .76$
Begleiter $1913.0:\ \Delta\alpha = -0^s.808 \quad \Delta\delta = -8''.22$
$\ 1914.0:\ = -0\ .798 \quad = -7\ .94.$

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Nördliche Polsterne.

	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbewegung 0s.	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbewegung 0".
Na	43 H. Cephei	4.3	0h 56m 38s.867	+ 7s.5893	+0740	+85° 47′ 27″.44	+19″.435	—001
Nb	α Ursae min.	2.0	1 28 19.015	+28.0532	+1412	+88 50 29.26	+18.578	+002
Nc	Gr. 750	6.8	4 8 52.286	+17.5487	+0158	+85 19 32.42	+ 9.376	+033
Nd	51 H. Cephei	5.2	7 0 7.484	+29.2961	—0502	+87 11 15.72	— 5.235	—036
Ne	1 H. Dracon.	4.3	9 24 46.488	+ 8.8158	—0062	+81 42 44.16	—15.641	—020
Nf	[30 H. Camel.]	5.2	10 20 34.384	+ 7.6022	—0469	+83 0 7.40	—18.158	+031
Ng	ε Ursae min.	4.2	16 54 50.557	— 6.2624	+0075	+82 10 55.52	— 5.617	+006
Nh	δ Ursae min.	4.3	18 0 19.313	—19.4990	+0172	+86 36 51.29	+ 0.085	+057
Ni	λ Ursae min.	6.8	19 7 26.332	—71.1107	—0934	+89 0 39.80	+ 5.823	+009
Nk	76 Draconis	6.0	20 48 57.198	— 4.1432	+0164	+82 12 35.99	+13.502	+027

Südliche Polsterne.

	Name	Gr.	AR. 1913.0	Jährl. Veränderung	Jährl. Eigenbewegung 0s.	Dekl. 1913.0	Jährl. Veränderung	Jährl. Eigenbewegung 0".
Sa	Octantis 4 G.	6	1h 42m 17s.76	— 3s.792	+018	—85° 12′ 33″.74	+18″.116	+035
Sb	[ξ Mensae]	6.0	5 8 44.15	— 6.948	—004	—82 35 17.57	+ 4.460	+014
Sc	ζ Octantis	6—5	9 9 31.29	— 8.066	—093	—85 18 58.53	—14.704	+047
Sd	ι Octantis	6—5	12 45 43.51	+ 5.943	+042	—84 39 3.96	—19.623	+025
Se	Octantis 20 G.	7	14 44 26.70	+25.735	—181	—87 47 49.77	—15.169	—066
Sf	Octantis 26 G.	6—7	16 28 13.92	+21.643	+005	—86 12 27.04	— 7.816	—002
Sg	χ Octantis	6	18 3 49.24	+35.743	—095	—87 39 53.09	+ 0.207	—127
Sh	σ Octantis	6	19 21 19.69	+96.745	+114	—89 13 57.47	+ 6.964	—002
Si	β Octantis	4.1	22 37 13.93	+ 6.339	—026	—81 50 17.43	+18.756	+003
Sk	τ Octantis	6	23 15 28.02	+10.340	+021	—87 57 37.12	+19.684	+015

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 47′	in ″ 0.01	$1^h 27^m$	in ^{s} 0.01	+88° 50′	in ″ 0.01	$4^h 8^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Jan. 0	32.79	−7	48.98	0	67.22	−26	51.65	+ 1	61.79	−5	51.70	+ 5
1	32.51	−5	49.07	− 3	66.21	−20	51.79	− 2	61.68	−5	51.99	+ 2
2	32.23	−2	49.15	− 5	65.20	−10	51.92	− 4	61.57	−4	52.28	− 2
3	31.95	+1	49.22	− 6	64.18	+ 3	52.04	− 6	61.46	−2	52.56	− 5
4	31.66	+5	49.29	− 5	63.16	+15	52.16	− 5	61.34	+1	52.84	− 7
5	31.38	+7	49.35	− 2	62.13	+25	52.27	− 3	61.21	+3	53.12	− 7
6	31.09	+8	49.40	+ 1	61.10	+30	52.37	0	61.08	+6	53.39	− 6
7	30.81	+8	49.45	+ 4	60.06	+30	52.47	+ 3	60.95	+7	53.66	− 3
8	30.52	+6	49.49	+ 7	59.02	+23	52.56	+ 6	60.81	+7	53.92	0
9	30.24	+2	49.52	+ 8	57.98	+12	52.65	+ 8	60.67	+6	54.18	+ 4
10	29.95	−1	49.55	+ 8	56.93	− 1	52.73	+ 8	60.52	+4	54.44	+ 7
11	29.67	−5	49.57	+ 6	55.87	−15	52.80	+ 7	60.37	0	54.69	+ 8
12	29.38	−7	49.58	+ 3	54.81	−25	52.86	+ 4	60.22	−3	54.94	+ 8
13	29.10	−8	49.58	− 1	53.75	−30	52.92	0	60.06	−6	55.18	+ 6
14	28.81	−8	49.58	− 5	52.69	−30	52.97	− 4	59.90	−8	55.42	+ 2
15	28.52	−5	49.58	− 9	51.63	−24	53.02	− 8	59.73	−8	55.66	− 2
16	28.23	−2	49.57	−10	50.57	−13	53.06	−10	59.56	−7	55.89	− 5
17	27.94	+1	49.55	−11	49.50	0	53.09	−11	59.39	−5	56.12	− 8
18	27.66	+5	49.53	− 9	48.43	+12	53.12	− 9	59.21	−2	56.34	−10
19	27.37	+7	49.50	− 6	47.36	+22	53.14	− 7	59.03	+1	56.55	− 9
20	27.09	+7	49.46	− 2	46.30	+26	53.15	− 3	58.84	+4	56.76	− 7
21	26.80	+7	49.41	+ 2	45.23	+25	53.15	+ 1	58.65	+5	56.96	− 3
22	26.52	+4	49.36	+ 5	44.17	+18	53.15	+ 5	58.46	+6	57.16	+ 1
23	26.24	+1	49.30	+ 8	43.10	+ 7	53.14	+ 7	58.27	+5	57.36	+ 5
24	25.96	−2	49.24	+ 8	42.04	− 5	53.13	+ 8	58.07	+3	57.55	+ 8
25	25.68	−5	49.17	+ 7	40.98	−16	53.11	+ 7	57.87	0	57.74	+ 9
26	25.41	−7	49.09	+ 4	39.93	−24	53.08	+ 5	57.66	−2	57.92	+ 9
27	25.13	−7	49.01	+ 1	38.87	−26	53.05	+ 2	57.45	−4	58.09	+ 7
28	24.86	−6	48.92	− 2	37.82	−23	53.01	− 1	57.24	−5	58.26	+ 3
29	24.59	−4	48.82	− 4	36.77	−15	52.96	− 4	57.03	−5	58.42	0
30	24.32	0	48.72	− 5	35.73	− 3	52.91	− 5	56.81	−3	58.58	− 4
31	24.05	+3	48.61	− 5	34.69	+10	52.85	− 6	56.60	0	58.73	− 6
Febr. 1	23.79	+6	48.50	− 3	33.66	+22	52.78	− 4	56.38	+2	58.87	− 7
2	23.53	+8	48.38	0	32.63	+29	52.71	− 1	56.16	+5	59.01	− 7
3	23.27	+8	48.26	+ 3	31.61	+31	52.63	+ 2	55.93	+7	59.14	− 4
4	23.01	+7	48.13	+ 6	30.60	+27	52.54	+ 5	55.70	+8	59.27	− 1
5	22.75	+4	47.99	+ 8	29.59	+17	52.45	+ 7	55.47	+7	59.39	+ 3
6	22.49	0	47.85	+ 8	28.59	+ 4	52.35	+ 8	55.24	+5	59.51	+ 6
sec δ, tg δ	+13.64		+13.61		+49.72		+49.71		+12.29		+12.25	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 0^m$	in ^{s} 0.01	$+87°\ 11'$	in $''$ 0.01	$9^h\ 24^m$	in ^{s} 0.01	$+81°\ 42'$	in $''$ 0.01	$16^h\ 54^m$	in ^{s} 0.01	$+82°\ 10'$	in $''$ 0.01
Jan. 0	^{s}37.04	+ 1	$''$21.97	+7	^{s}56.23	+2	$''$36.33	+ 7	^{s}42.93	+2	$''$38.53	−5
1	37.19	− 3	22.28	+6	56.37	0	36.51	+ 6	42.98	+3	38.19	−1
2	37.33	− 6	22.60	+3	56.50	−2	36.69	+ 4	43.04	+2	37.85	+3
3	37.46	− 8	22.91	−1	56.63	−3	36.88	+ 1	43.10	+1	37.51	+6
4	37.58	− 8	23.23	−5	56.76	−3	37.08	− 3	43.16	0	37.17	+8
5	37.69	− 5	23.54	−8	56.89	−3	37.28	− 6	43.23	−2	36.84	+8
6	37.79	− 1	23.86	−9	57.02	−2	37.48	− 9	43.30	−3	36.51	+6
7	37.88	+ 3	24.18	−9	57.14	0	37.69	− 9	43.37	−4	36.18	+2
8	37.97	+ 7	24.50	−7	57.26	+1	37.90	− 8	43.44	−4	35.86	0
9	38.05	+10	24.82	−4	57.38	+3	38.11	− 6	43.52	−3	35.54	−4
10	38.12	+11	25.14	0	57.49	+4	38.33	− 2	43.60	−2	35.22	−7
11	38.18	+ 9	25.46	+4	57.60	+4	38.55	+ 2	43.68	0	34.91	−8
12	38.22	+ 5	25.79	+8	57.71	+3	38.78	+ 6	43.77	+2	34.60	−8
13	38.26	0	26.11	+9	57.82	+2	39.01	+ 9	43.86	+4	34.30	−6
14	38.29	− 5	26.43	+9	57.93	0	39.25	+10	43.95	+5	34.00	−2
15	38.31	−10	26.75	+8	58.03	−2	39.49	+10	44.04	+5	33.70	+2
16	38.32	−13	27.07	+4	58.13	−4	39.73	+ 7	44.13	+4	33.41	+5
17	38.32	−14	27.39	+1	58.23	−4	39.98	+ 4	44.23	+3	33.12	+8
18	38.32	−13	27.71	−3	58.32	−5	40.23	0	44.33	+1	32.83	+9
19	38.30	− 9	28.03	−6	58.42	−4	40.48	− 4	44.43	−1	32.55	+9
20	38.28	− 4	28.35	−8	58.51	−2	40.73	− 6	44.54	−2	32.28	+6
21	38.25	+ 2	28.67	−7	58.60	−1	40.99	− 7	44.65	−3	32.01	+3
22	38.21	+ 7	28.98	−5	58.68	+1	41.25	− 7	44.76	−3	31.74	−1
23	38.16	+10	29.30	−2	58.76	+3	41.52	− 5	44.87	−3	31.48	−5
24	38.10	+12	29.61	+1	58.84	+4	41.79	− 2	44.99	−2	31.22	−8
25	38.03	+11	29.92	+5	58.91	+4	42.06	+ 2	45.11	0	30.97	−9
26	37.95	+ 8	30.23	+7	58.98	+4	42.33	+ 5	45.23	+1	30.72	−8
27	37.86	+ 4	30.54	+8	59.05	+2	42.61	+ 6	45.35	+2	30.48	−6
28	37.77	− 1	30.84	+7	59.12	+1	42.89	+ 7	45.47	+3	30.24	−3
29	37.67	− 5	31.15	+4	59.18	−1	43.17	+ 5	45.59	+3	30.01	+1
30	37.55	− 7	31.45	+1	59.24	−2	43.45	+ 2	45.72	+2	29.78	+5
31	37.43	− 8	31.75	−3	59.30	−3	43.73	− 1	45.85	0	29.56	+7
Febr. 1	37.30	− 6	32.05	−7	59.35	−3	44.02	− 5	45.98	−1	29.34	+8
2	37.16	− 3	32.35	−9	59.40	−2	44.31	− 8	46.11	−3	29.13	+7
3	37.02	+ 2	32.64	−9	59.45	−1	44.60	− 9	46.25	−4	28.93	+5
4	36.87	+ 6	32.93	−8	59.49	+1	44.89	− 9	46.39	−4	28.73	+1
5	36.70	+ 9	33.22	−5	59.53	+2	45.18	− 7	46.53	−4	28.54	−3
6	36.53	+11	33.51	−1	59.57	+3	45.47	− 4	46.67	−3	28.35	−6
sec δ, tg δ	+20.41		+20.38		+6.94		+6.86		+7.35		+7.28	

1913	δ Ursae minoris 4ᵐ.3.				λ Ursae minoris 6ᵐ.8.				76 Draconis 6ᵐ.0.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	17ʰ 59ᵐ s	in s 0.01	+86° 36′ ″	in ″ 0.01	19ʰ 5ᵐ s	in s 0.01	+89° 0′ ″	in ″ 0.01	20ʰ 48ᵐ s	in s 0.01	+82° 12′ ″	in ″ 0.01
Jan. 0	57.27	+ 4	39.31	−6	61.55	− 4	34.28	−8	46.19	−2	40.15	− 7
1	57.27	+ 6	38.97	−2	61.14	+ 8	33.96	−6	46.08	0	39.90	− 7
2	57.27	+ 6	38.63	+2	60.75	+17	33.64	−3	45.98	+1	39.64	− 5
3	57.29	+ 4	38.29	+5	60.38	+21	33.32	0	45.88	+2	39.38	− 2
4	57.31	+ 1	37.95	+8	60.04	+20	32.99	+4	45.78	+3	39.11	+ 2
5	57.34	− 2	37.61	+9	{59.72 {59.43	+12 + 1	32.67 32.34	+7 +9	45.69	+3	38.84	+ 5
6	57.38	− 6	37.27	+8	59.16	−12	32.02	+9	45.60	+2	38.57	+ 8
7	57.43	− 9	36.93	+5	58.92	−23	31.69	+7	45.51	0	38.29	+ 9
8	57.48	−10	36.59	+2	58.71	−30	31.36	+4	45.42	−1	38.01	+ 9
9	57.54	− 9	36.25	−2	58.52	−31	31.03	0	45.34	−3	37.73	+ 7
10	57.61	− 6	35.92	−6	58.36	−27	30.70	−4	45.26	−4	37.44	+ 3
11	57.69	− 2	35.59	−8	58.22	−16	30.37	−7	45.18	−4	37.15	− 1
12	57.77	+ 2	35.26	−9	58.10	− 1	30.04	−9	45.11	−3	36.86	− 5
13	57.86	+ 7	34.93	−8	58.02	+15	29.71	−9	45.04	−2	36.56	− 8
14	57.95	+10	34.61	−5	57.96	+29	29.38	−7	44.97	0	36.26	−10
15	58.05	+12	34.28	−1	57.92	+39	29.05	−4	44.90	+2	35.96	−10
16	58.16	+12	33.96	+3	57.91	+41	28.72	0	44.84	+4	35.66	− 8
17	58.28	+ 9	33.64	+6	57.92	+37	28.39	+4	44.78	+5	35.35	− 4
18	58.40	+ 6	33.33	+8	57.96	+27	28.06	+7	44.72	+5	35.04	0
19	58.53	+ 1	33.01	+9	58.03	+13	27.74	+8	44.66	+4	34.73	+ 3
20	58.67	− 3	32.70	+7	58.12	− 3	27.41	+8	44.61	+3	34.41	+ 6
21	58.82	− 7	32.39	+4	58.24	−17	27.08	+6	44.56	+1	34.10	+ 7
22	58.97	− 8	32.08	+1	58.38	−28	26.76	+2	44.52	−1	33.78	+ 7
23	59.13	− 8	31.78	−3	58.55	−32	26.44	−1	44.48	−3	33.46	+ 5
24	59.29	− 7	31.48	−7	58.74	−29	26.11	−5	44.44	−4	33.14	+ 2
25	59.46	− 4	31.18	−8	58.95	−21	25.79	−7	44.40	−4	32.82	− 1
26	59.63	0	30.89	−9	59.19	− 9	25.47	−8	44.37	−4	32.50	− 4
27	59.81	+ 3	30.60	−7	59.46	+ 3	25.16	−7	44.34	−3	32.17	− 6
28	60.00	+ 5	30.31	−4	59.75	+14	24.84	−5	44.31	−1	31.84	− 7
29	60.20	+ 6	30.03	0	60.06	+20	24.53	−1	{44.28 {44.26	+ 1 + 2	31.51 31.18	− 6 − 3
30	60.40	+ 5	29.75	+4	60.40	+21	24.22	+3	44.24	+3	30.85	0
31	60.61	+ 3	29.47	+7	60.76	+16	23.91	+6	44.23	+3	30.52	+ 4
Febr. 1	60.82	− 1	29.20	+9	61.15	+ 6	23.60	+9	44.22	+2	30.19	+ 7
2	61.04	− 5	28.93	+8	61.56	− 7	23.29	+9	44.21	+1	29.86	+ 9
3	61.26	− 8	28.67	+7	61.99	−19	22.99	+8	44.21	−1	29.53	+10
4	61.49	−10	28.41	+3	62.45	−28	22.69	+5	44.21	−2	29.20	+ 8
5	61.73	−10	28.16	−1	62.93	−32	22.39	+2	44.21	−3	28.87	+ 5
6	61.97	− 8	27.91	−4	63.43	−30	22.10	−2	44.21	−4	28.54	+ 1
sec δ, tg δ	+16.91		+16.88		+57.75		+57.74		+7.38		+7.31	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$ s	in 0.01 s	+85° 47′ ″	in 0.01 ″	$1^h 26^m$ s	in 0.01 s	+88° 50′ ″	in 0.01 ″	$4^h 8^m$ s	in 0.01 s	+85° 19′ ″	in 0.01 ″
Febr. 6	22.49	0	47.85	+ 8	88.59	+ 4	52.35	+ 8	55.24	+5	59.51	+ 6
7	22.24	−3	47.70	+ 7	87.59	−10	52.25	+ 8	55.00	+2	59.62	+ 8
8	21.99	−6	47.55	+ 4	86.60	−21	52.14	+ 5	54.77	−2	59.72	+ 8
9	21.75	−8	47.39	0	85.63	−29	52.03	+ 2	54.53	−5	59.82	+ 7
10	21.51	−8	47.23	− 4	84.66	−31	51.91	− 2	54.29	−7	59.91	+ 4
11	21.27	−6	47.06	− 7	83.70	−26	51.78	− 6	54.05	−8	60.00	0
12	21.03	−4	46.88	−10	82.75	−18	51.64	− 9	53.81	−8	60.08	− 4
13	20.80	0	46.70	−11	81.81	− 5	51.50	−11	53.56	−6	60.15	− 7
14	20.57	+3	46.51	−10	80.88	+ 8	51.36	−10	53.32	−3	60.22	− 9
15	20.35	+6	46.32	− 7	79.96	+18	51.21	− 8	53.07	0	60.28	−10
16	20.13	+7	46.12	− 4	79.05	+25	51.05	− 5	52.83	+3	60.33	− 8
17	19.91	+7	45.92	0	78.16	+26	50.89	0	52.58	+5	60.38	− 5
18	19.69	+5	45.71	+ 4	77.27	+21	50.72	+ 3	52.33	+6	60.42	− 1
19	19.48	+2	45.50	+ 7	76.40	+12	50.55	+ 6	52.08	+5	60.46	+ 3
20	19.27	−1	45.29	+ 8	75.54	0	50.37	+ 8	51.83	+4	60.49	+ 6
21	19.07	−4	45.07	+ 7	74.69	−12	50.19	+ 8	51.58	+1	60.51	+ 9
22	18.87	−7	44.85	+ 5	73.86	−21	50.00	+ 6	51.33	−1	60.52	+ 9
23	18.68	−8	44.62	+ 2	73.04	−26	49.81	+ 4	51.08	−3	60.53	+ 7
24	18.49	−7	44.39	− 1	72.23	−25	49.61	0	50.83	−5	60.53	+ 5
25	18.31	−5	44.15	− 4	71.44	−19	49.41	− 3	50.58	−5	60.53	+ 1
26	18.13	−1	43.91	− 5	70.66	− 8	49.20	− 5	50.33	−4	60.52	− 3
27	17.95	+2	43.67	− 5	69.90	+ 5	48.99	− 6	50.08	−2	60.51	− 6
28	17.78	+6	43.42	− 4	69.15	+18	48.77	− 5	49.83	+1	60.49	− 7
März 1	17.61	+8	43.17	− 1	68.41	+27	48.55	− 2	49.58	+4	60.46	− 7
2	17.45	+8	42.92	+ 2	67.69	+31	48.32	+ 1	49.33	+6	60.43	− 5
3	17.29	+7	42.66	+ 5	66.99	+29	48.09	+ 4	49.08	+8	60.39	− 2
4	17.14	+5	42.40	+ 7	66.30	+22	47.86	+ 7	48.83	+7	60.34	+ 1
5	16.99	+2	42.13	+ 9	65.63	+10	47.62	+ 8	48.59	+6	60.29	+ 5
6	16.85	−2	41.86	+ 8	64.98	− 4	47.38	+ 8	48.34	+3	60.23	+ 7
7	16.71	−6	41.59	+ 6	64.34	−17	47.13	+ 6	48.10	0	60.17	+ 8
8	16.58	−8	41.32	+ 2	63.72	−26	46.88	+ 3	47.85	−4	60.10	+ 8
9	16.45	−8	41.04	− 2	63.12	−30	46.63	− 1	47.61	−6	60.02	+ 5
10	16.33	−7	40.76	− 6	62.54	−29	46.37	− 5	47.37	−8	59.94	+ 2
11	16.21	−5	40.48	− 9	61.97	−21	46.11	− 8	47.13	−8	59.85	− 2
12	16.10	−2	40.20	−10	61.42	−10	45.85	−10	46.89	−7	59.76	− 6
13	15.99	+2	39.91	−10	60.89	+ 3	45.58	−11	46.66	−5	59.66	− 9
14	15.89	+5	39.62	− 8	60.38	+15	45.31	− 9	46.43	−2	59.56	−10
15	15.79	+7	39.33	− 5	59.89	+23	45.04	− 6	46.20	+1	59.45	− 9
sec δ, tg δ	+13.64		+13.60		+49.70		+49.69		+12.29		+12.25	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 0^m$	in s 0.01	$+87° 11'$	in " 0.01	$9^h 24^m$	in s 0.01	$+81° 42'$	in " 0.01	$16^h 54^m$	in s 0.01	$+82° 10'$	in " 0.01
Febr. 6	36.53	+11	33.51	− 1	59.57	+3	45.47	− 4	46.67	−3	28.35	−6
7	36.35	+10	33.79	+ 3	59.61	+4	45.77	0	46.81	−1	28.17	−8
8	36.16	+ 7	34.07	+ 6	59.64	+3	46.07	+ 4	46.95	+1	27.99	−8
9	35.97	+ 3	34.34	+ 9	59.67	+2	46.37	+ 8	47.09	+3	27.82	−7
10	35.77	− 3	34.62	+10	59.70	+1	46.67	+10	47.24	+5	27.65	−4
11	35.55	− 8	34.89	+ 8	59.72	−1	46.97	+10	47.39	+5	27.49	0
12	35.33	−12	35.16	+ 6	59.74	−3	47.27	+ 8	47.54	+5	27.34	+4
13	35.11	−14	35.42	+ 2	59.76	−4	47.57	+ 5	47.69	+4	27.19	+7
14	34.88	−14	35.68	− 2	59.77	−5	47.87	+ 2	47.84	+2	27.05	+9
15	34.64	−11	35.93	− 5	59.78	−4	48.17	− 2	47.99	0	26.92	+9
16	34.39	− 6	36.18	− 7	59.79	−3	48.48	− 5	48.14	−2	26.79	+7
17	34.14	− 1	36.43	− 8	59.79	−1	48.78	− 7	48.29	−3	26.67	+4
18	33.88	+ 4	36.67	− 6	59.79	0	49.08	− 7	48.45	−3	26.55	0
19	33.61	+ 9	36.91	− 4	59.79	+2	49.38	− 5	48.61	−3	26.44	−4
20	33.34	+11	37.15	0	59.79	+3	49.68	− 3	48.76	−2	26.34	−7
21	33.06	+11	37.38	+ 3	59.78	+4	49.99	+ 1	48.92	−1	26.25	−9
22	32.77	+ 9	37.61	+ 6	59.77	+4	50.29	+ 4	49.07	+1	26.16	−9
23	32.48	+ 5	37.83	+ 8	59.76	+3	50.59	+ 6	49.23	+2	26.08	−7
24	32.18	+ 1	38.05	+ 7	59.74	+1	50.89	+ 7	49.39	+3	26.00	−4
25	31.87	− 4	38.26	+ 5	59.72	0	51.19	+ 6	49.55	+3	25.93	0
26	31.56	− 7	38.47	+ 2	59.70	−2	51.49	+ 3	49.71	+2	25.86	+3
27	31.24	− 8	38.67	− 2	59.67	−3	51.79	0	49.87	0	25.81	+6
28	30.92	− 7	38.87	− 5	59.64	−3	52.08	− 4	50.03	−1	25.76	+8
März 1	30.59	− 4	39.06	− 8	59.61	−3	52.37	− 7	50.19	−3	25.72	+8
2	30.26	0	39.25	−10	59.57	−1	52.66	− 9	50.35	−4	25.68	+6
3	29.92	+ 4	39.43	− 9	59.53	0	52.95	−10	50.51	−4	25.65	+2
4	29.58	+ 8	39.61	− 7	59.49	+2	53.24	− 8	50.67	−4	25.62	−1
5	29.23	+11	39.78	− 3	59.45	+3	53.52	− 6	50.83	−3	25.61	−5
6	28.88	+11	39.95	+ 1	59.40	+4	53.80	− 2	50.99	−2	25.61	−7
7	28.52	+ 9	40.11	+ 5	59.35	+4	54.08	+ 3	51.15	0	25.61	−8
8	28.16	+ 5	40.26	+ 8	59.30	+3	54.36	+ 7	51.31	+2	25.62	−8
9	27.80	0	40.41	+ 9	59.25	+1	54.63	+ 9	51.47	+4	25.63	−5
10	27.43	− 6	40.55	+ 9	59.19	−1	54.90	+10	51.63	+5	25.64	−2
11	27.06	−11	40.69	+ 7	59.13	−2	55.17	+ 9	51.79	+5	25.66	+2
12	26.68	−14	40.82	+ 4	59.07	−4	55.44	+ 7	51.95	+4	25.69	+6
13	26.30	−14	40.95	0	59.01	−5	55.70	+ 3	52.11	+3	25.73	+8
14	25.92	−12	41.07	− 4	58.94	−5	55.96	− 1	52.27	+1	25.77	+9
15	25.53	− 9	41.19	− 6	58.87	−4	56.22	− 4	52.42	−1	25.82	+8
sec δ, tg δ	+20.43		+20.40		+6.94		+6.87		+7.35		+7.28	

1913	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl	Dekl.	☾ Gl.
	$18^h 0^m$	in $0^s.01$	$+86°36'$	in $0''.01$	$19^h 6^m$	in $0^s.01$	$+89°0'$	in $0''.01$	$20^h 48^m$	in $0^s.01$	$+82°12'$	in $0''.01$
Febr. 6	$1^s.97$	− 8	$27''.91$	− 4	$3^s.43$	−30	$22''.10$	− 2	$44^s.21$	−4	$28''.54$	+ 1
7	2.22	− 4	27.67	− 7	3.95	−21	21.81	− 6	44.22	−4	28.21	− 3
8	2.47	0	27.43	− 9	4.50	− 8	21.52	− 9	44.23	−3	27.88	− 7
9	2.73	+ 5	27.19	− 8	5.07	+ 8	21.24	− 9	44.24	−1	27.55	− 9
10	2.99	+ 9	26.96	− 6	5.66	+24	20.96	− 8	44.26	+1	27.22	−10
11	3.25	+12	26.73	− 3	6.27	+35	20.68	− 5	44.28	+3	26.90	− 9
12	3.52	+12	26.51	+ 1	6.90	+41	20.40	− 2	44.30	+4	26.58	− 6
13	3.80	+10	26.30	+ 5	7.55	+40	20.13	+ 2	44.33	+5	26.25	− 2
14	4.08	+ 7	26.09	+ 8	8.23	+32	19.87	+ 6	44.36	+5	25.93	+ 2
15	4.37	+ 3	25.88	+ 9	8.93	+19	19.60	+ 8	44.39	+4	25.61	+ 5
16	4.66	− 1	25.68	+ 8	9.65	+ 3	19.34	+ 8	44.42	+2	25.29	+ 7
17	4.95	− 5	25.49	+ 6	10.38	−12	19.08	+ 7	44.46	0	24.98	+ 7
18	5.25	− 8	25.30	+ 2	11.12	−24	18.83	+ 4	44.50	−2	24.66	+ 6
19	5.56	− 8	25.12	− 2	11.89	−30	18.58	0	44.55	−3	24.35	+ 3
20	5.86	− 7	24.94	− 5	12.68	−30	18.34	− 4	44.60	−4	24.04	0
21	6.17	− 5	24.77	− 8	13.49	−24	18.10	− 7	44.65	−4	23.73	− 3
22	6.48	− 1	24.60	− 9	14.32	−14	17.87	− 8	44.70	−3	23.42	− 6
23	6.80	+ 2	24.44	− 8	15.16	− 1	17.64	− 8	44.76	−2	23.12	− 7
24	7.12	+ 5	24.29	− 5	16.02	+11	17.42	− 6	44.82	0	22.82	− 7
25	7.44	+ 6	24.14	− 1	16.90	+19	17.20	− 3	44.88	+2	22.52	− 4
26	7.76	+ 6	24.00	+ 2	17.79	+22	16.98	+ 1	44.94	+3	22.22	− 1
27	8.09	+ 4	23.86	+ 6	18.70	+18	16.77	+ 5	45.01	+3	21.92	+ 3
28	8.42	+ 1	23.73	+ 8	19.63	+10	16.57	+ 8	45.08	+3	21.63	+ 6
März 1	8.75	− 3	23.60	+ 9	20.57	− 2	16.37	+ 9	45.15	+2	21.34	+ 7
2	9.09	− 7	23.48	+ 7	21.53	−15	16.17	+ 9	45.23	0	21.06	+10
3	9.43	− 9	23.37	+ 5	22.50	−26	15.98	+ 7	45.31	−2	20.78	+ 9
4	9.77	−10	23.27	+ 1	23.48	−32	15.80	+ 3	45.39	−3	20.50	+ 6
5	10.11	− 9	23.17	− 3	24.47	−32	15.62	− 1	45.47	−4	20.22	+ 3
6	10.45	− 6	23.08	− 6	25.48	−26	15.45	− 5	45.56	−4	19.95	− 2
7	10.80	− 2	22.99	− 8	26.50	−14	15.28	− 8	45.65	−3	19.68	− 6
8	11.15	+ 3	22.91	− 9	27.53	+ 1	15.12	− 9	45.74	−2	19.42	− 9
9	11.50	+ 8	22.83	− 7	28.57	+18	14.96	− 9	45.83	0	19.16	−10
10	11.85	+11	22.76	− 4	29.63	+31	14.81	− 7	45.93	+2	18.91	− 9
11	12.20	+12	22.70	0	30.70	+39	14.66	− 3	46.03	+4	18.66	− 7
12	12.55	+11	22.65	− 4	31.78	+41	14.52	+ 1	46.13	+5	18.41	− 4
13	12.90	+ 9	22.60	+ 7	32.87	+36	14.39	+ 4	46.23	+5	18.17	0
14	13.25	+ 5	22.56	+ 9	33.96	+25	14.26	+ 7	46.34	+4	17.93	+ 4
15	13.61	0	22.52	+ 9	35.07	+10	14.14	+ 8	46.45	+3	17.70	+ 6
sec δ, tg δ	+16.90		+16.87		+57.57		+57.56		+7.38		+7.31	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in $0^s.01$	$+85° 47'$	in $0''.01$	$1^h 26^m$	in $0^s.01$	$+88° 50'$	in $0''.01$	$4^h 8^m$	in $0^s.01$	$+85° 19'$	in $0''.01$
März 15	15.79	+7	39.33	−5	59.89	+23	45.04	−6	46.20	+1	59.45	−9
16	15.70	+7	39.04	−1	59.41	+26	44.77	−2	45.97	+4	59.33	−6
17	15.61	+6	38.75	+3	58.95	+23	44.49	+2	45.74	+5	59.21	−3
18	15.53	+4	38.46	+6	58.51	+16	44.21	+5	45.51	+5	59.08	+1
19	15.45	0	38.16	+8	58.09	+5	43.93	+7	45.29	+4	58.95	+5
20	15.38	−3	37.86	+8	57.69	−8	43.64	+8	45.07	+2	58.81	+8
21	15.32	−6	37.56	+6	57.32	−18	43.35	+7	44.85	0	58.67	+9
22	15.27	−7	37.26	+3	56.96	−25	43.06	+5	44.63	−3	58.52	+8
23	15.22	−7	36.96	0	56.62	−26	42.77	+1	44.42	−4	58.37	+6
24	15.17	−6	36.66	−3	56.30	−22	42.47	−2	44.21	−5	58.21	+2
25	15.13	−3	36.35	−5	56.00	−13	42.18	−4	44.00	−4	58.05	−1
26	15.09	+1	36.05	−5	55.72	0	41.89	−6	43.79	−3	57.88	−5
27	15.06	+4	35.74	−5	55.46	+13	41.59	−5	43.59	0	57.70	−7
28	15.04	+7	35.44	−3	55.22	+24	41.29	−3	43.39	+3	57.52	−7
29	15.02	+8	35.13	+1	55.00	+30	40.99	−1	43.20	+6	57.34	−6
30	15.01	+8	34.83	+4	54.80	+31	40.69	+3	43.01	+7	57.15	−4
31	15.00	+6	34.52	+7	54.62	+25	40.39	+6	42.82	+8	56.96	0
April 1	15.00	+3	34.22	+8	54.46	+15	40.09	+8	42.63	+7	56.77	+4
2	15.00	−1	33.91	+9	54.32	+1	39.78	+9	42.45	+4	56.57	+6
3	15.01	−4	33.61	+7	54.20	−12	39.48	+7	42.27	+1	56.36	+8
4	15.02	−7	33.30	+4	54.11	−23	39.17	+5	42.10	−2	56.15	+8
5	{15.04 15.07	−8 −8	33.00 32.70	0 −4	54.03	−29	38.87	+1	41.93	−5	55.94	+6
6	15.11	−6	32.40	−8	53.97	−30	38.56	−3	41.76	−7	55.72	+3
7	15.15	−3	32.10	−10	53.93	−25	38.25	−7	41.59	−9	55.50	−1
8	15.19	+1	31.80	−11	53.92	−15	37.94	−9	41.43	−8	55.28	−5
9	15.24	+4	31.50	−9	53.93	−2	37.64	−11	41.28	−6	55.05	−8
10	15.29	+6	31.20	−7	53.95	+10	37.33	−10	41.13	−3	54.82	−10
11	15.35	+7	30.91	−3	54.00	+20	37.03	−7	40.98	0	54.58	−10
12	15.42	+7	30.61	+1	54.07	+25	36.72	−4	40.84	+3	54.34	−8
13	15.49	+5	30.32	+5	{54.15 54.26	+25 +19	36.42 36.12	0 +4	40.70	+5	54.10	−4
14	15.57	+2	30.03	+7	54.38	+9	35.82	+7	40.56	+6	53.85	0
15	15.65	−2	29.74	+8	54.53	−3	35.52	+8	40.43	+5	53.60	+4
16	15.74	−5	29.45	+7	54.70	−15	35.22	+7	40.31	+3	53.35	+7
17	15.83	−7	29.17	+5	54.89	−23	34.92	+5	40.19	+1	53.10	+9
18	15.93	−8	28.89	+1	55.09	−27	34.62	+2	40.07	−2	52.84	+9
19	16.03	−7	28.61	−2	55.32	−24	34.32	−1	39.96	−4	52.58	+7
20	16.14	−4	28.33	−4	55.57	−17	34.03	−4	39.85	−5	52.31	+4
21	16.25	−1	28.05	−5	55.83	−5	33.74	−5	39.74	−5	52.05	0
sec δ, tg δ	+13.63		+13.59		+49.58		+49.57		+12.29		+12.25	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 0^m$	in ^{s} 0.01	$+87° 11'$	in $''$ 0.01	$9^h 24^m$	in ^{s} 0.01	$+81° 42'$	in $''$ 0.01	$16^h 54^m$	in ^{s} 0.01	$+82° 10'$	in $''$ 0.01
März 15	25.53	−9	41.19	−6	58.87	−4	56.22	−4	52.42	−1	25.82	+8
16	25.14	−3	41.30	−8	58.80	−2	56.48	−6	52.58	−2	25.87	+6
17	24.75	+2	41.41	−7	58.73	0	56.73	−7	52.74	−3	25.93	+2
18	24.36	+7	41.51	−5	58.65	+1	56.98	−6	52.89	−3	26.00	−2
19	23.96	+10	41.60	−1	58.57	+3	57.23	−4	53.05	−3	26.08	−6
20	23.56	+11	41.69	+2	58.49	+4	57.47	−1	53.20	−2	26.16	−8
21	23.16	+10	41.77	+5	58.41	+4	57.71	+3	53.35	0	26.25	−9
22	22.76	+7	41.84	+7	58.33	+3	57.94	+5	53.50	+1	26.35	−8
23	22.35	+2	41.91	+8	58.24	+2	58.17	+7	53.65	+2	26.46	−5
24	21.95	−2	41.97	+6	58.15	0	58.40	+6	53.80	+3	26.56	−2
25	21.54	−6	42.03	+4	58.05	−1	58.62	+5	53.95	+2	26.67	+2
26	21.13	−8	42.08	0	57.96	−2	58.84	+2	54.10	+1	26.79	+6
27	20.72	−8	42.13	−4	57.86	−3	59.05	−2	54.24	0	26.92	+8
28	20.31	−6	42.17	−7	57.76	−3	59.26	−6	54.39	−2	27.05	+8
29	19.90	−2	42.20	−9	57.66	−2	59.47	−8	54.53	−3	27.19	+7
30	19.49	+3	42.23	−9	57.56	0	59.67	−10	54.67	−4	27.33	+4
31	19.08	+7	42.25	−8	57.46	+1	59.87	−9	54.81	−5	27.48	0
April 1	18.67	+10	42.26	−5	57.36	+3	60.06	−7	54.95	−4	27.63	−4
2	18.25	+11	42.27	−1	57.25	+4	60.25	−3	55.09	−3	27.79	−7
3	17.83	+10	42.27	+3	57.14	+4	60.43	+1	55.23	−1	27.96	−8
4	17.42	+7	42.27	+7	57.03	+3	60.61	+5	55.36	+1	28.13	−8
5	17.01	+2	42.26	+9	56.92	+2	60.79	+8	55.49	+3	28.30	−6
6	16.60	−4	42.24	+9	56.81	0	60.96	+10	55.62	+5	28.48	−3
7	16.19	−9	42.22	+8	56.70	−2	61.13	+10	55.75	+5	28.67	+1
8	15.78	−13	42.19	+5	56.58	−3	61.29	+8	55.88	+5	28.86	+5
9	15.37	−15	42.16	+1	56.46	−4	61.45	+5	56.00	+3	29.05	+8
10	14.97	−14	42.12	−3	56.34	−5	61.60	+1	56.12	+2	29.25	+9
11	14.57	−10	42.07	−6	56.22	−4	61.74	−3	56.24	0	29.45	+9
12	14.17	−6	42.02	−7	56.10	−3	61.88	−6	56.36	−2	29.66	+7
13	13.77	0	41.96	−7	55.98	−1	62.02	−7	56.48	−3	29.88	+4
14	13.37	+5	41.90	−6	55.86	+1	62.15	−7	56.59	−3	30.10	0
15	12.97	+9	41.83	−3	55.74	+2	62.27	−5	56.70	−3	30.32	−4
16	12.58	+11	41.75	+1	55.62	+3	62.39	−2	56.81	−2	30.55	−7
17	12.19	+10	41.67	+4	55.50	+4	62.50	+1	56.92	0	30.78	−9
18	11.80	+8	41.58	+7	55.37	+4	62.61	+5	57.03	+1	31.02	−8
19	11.41	+4	41.49	+8	55.24	+2	62.71	+6	57.13	+2	31.26	−7
20	11.03	0	41.39	+7	55.11	+1	62.80	+7	57.23	+3	31.50	−3
21	10.65	−5	41.29	+5	54.98	−1	62.89	+6	57.33	+3	31.75	+1
sec δ, tg δ	+20.43		+20.41		+6.94		+6.87		+7.35		+7.28	

1913	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$18^h 0^m$	in ^{s} 0.01	+86° 36′	in ″ 0.01	$19^h 6^m$	in ^{s} 0.01	+89° 0′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 12′	in ″ 0.01
März 15	13.61	0	22.52	+ 9	35.07	+10	14.14	+ 8	46.45	+3	17.70	+ 6
16	13.96	− 4	22.49	+ 7	36.18	− 6	14.02	+ 7	46.56	+1	17.47	+ 7
17	14.32	− 7	22.47	+ 4	37.30	−19	13.91	+ 5	46.67	−1	17.25	+ 6
18	14.67	− 8	22.45	0	38.43	−28	13.81	+ 2	46.78	−3	17.03	+ 4
19	15.03	− 8	22.44	− 4	39.57	−30	13.71	− 2	46.90	−4	16.82	+ 1
20	15.39	− 6	22.44	− 7	40.71	−27	13.62	− 6	47.02	−4	16.61	− 2
21	15.75	− 3	22.44	− 9	41.86	−18	13.53	− 8	47.14	−3	16.41	− 5
22	16.11	+ 1	22.45	− 8	43.01	− 6	13.45	− 8	47.26	−2	16.21	− 7
23	16.46	+ 4	22.46	− 6	44.17	+ 7	13.38	− 7	47.38	0	16.02	− 7
24	16.82	+ 6	22.48	− 3	45.34	+16	13.31	− 4	47.51	+1	15.83	− 5
25	17.17	+ 6	22.51	+ 1	46.51	+21	13.25	0	47.64	+2	15.65	− 2
26	17.53	+ 5	22.54	+ 5	47.68	+20	13.19	+ 3	47.77	+3	15.47	+ 1
27	17.88	+ 2	22.58	+ 7	48.86	+14	13.14	+ 7	47.90	+3	15.30	+ 5
28	18.23	− 2	22.63	+ 9	50.04	+ 3	13.10	+ 9	48.03	+2	15.14	+ 8
29	18.58	− 6	22.68	+ 8	51.22	−10	13.06	+ 9	48.17	+1	14.98	+10
30	18.93	− 9	22.74	+ 6	52.40	−22	13.03	+ 8	48.31	−1	14.83	+10
31	19.27	−10	22.81	+ 3	53.58	−31	13.01	+ 5	48.45	−3	14.68	+ 8
April 1	19.62	−10	22.88	− 1	54.77	−33	12.99	+ 1	48.59	−4	14.54	+ 4
2	19.96	− 7	22.96	− 5	55.96	−30	12.98	− 3	48.73	−4	14.40	0
3	20.30	− 4	23.04	− 8	57.14	−20	12.97	− 7	48.87	−4	14.27	− 4
4	20.64	+ 1	23.13	− 9	58.32	− 5	12.97	− 9	49.01	−2	14.15	− 7
5	20.98	+ 6	23.23	− 8	59.50	+11	12.98	− 9	49.16	0	14.03	− 9
6	21.31	+ 9	23.33	− 6	60.69	+26	12.99	− 8	49.30	+1	13.91	−10
7	21.64	+12	23.44	− 2	61.87	+37	13.01	− 5	49.45	+3	13.80	− 8
8	21.97	+12	23.55	+ 2	63.05	+41	13.04	− 1	49.60	+5	13.70	− 5
9	22.30	+10	23.67	+ 6	64.22	+39	13.07	+ 3	49.75	+5	13.60	− 1
10	22.62	+ 7	23.79	+ 8	65.39	+30	13.11	+ 6	49.90	+5	13.51	+ 2
11	22.94	+ 2	23.92	+ 9	66.56	+16	13.15	+ 8	50.05	+3	13.43	+ 5
12	23.26	− 2	24.06	+ 8	67.73	+ 1	13.20	+ 8	50.20	+1	13.35	+ 7
13	23.57	− 6	24.20	+ 5	68.89	−14	13.25	+ 6	50.35	0	13.28	+ 7
14	23.88	− 8	24.35	+ 1	70.04	−25	13.31	+ 3	50.51	−2	13.22	+ 5
15	24.19	− 8	24.50	− 3	71.19	−30	13.38	− 1	50.66	−4	13.16	+ 2
16	24.49	− 7	24.66	− 6	72.34	−28	13.45	− 4	50.82	−4	13.11	− 1
17	24.79	− 4	24.82	− 8	73.48	−21	13.53	− 7	50.97	−4	13.06	− 4
18	25.09	− 1	24.99	− 9	74.61	−10	13.62	− 8	51.13	−3	13.02	− 6
19	25.38	+ 3	25.16	− 7	75.73	+ 2	13.71	− 7	51.28	−1	12.99	− 7
20	25.67	+ 5	25.34	− 4	76.85	+13	13.81	− 5	51.43	0	12.96	− 6
21	25.96	+ 6	25.52	− 1	77.96	+20	13.91	− 2	51.59	+2	12.94	− 4
sec δ, tg δ	+16.89		+16.86		+57.51		+57.50		+7.37		+7.30	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 47′	in ″ 0.01	$1^h 26^m$	in ^{s} 0.01	+88° 50′	in ″ 0.01	$4^h 8^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
April 21	$16.^s25$	−1	28.″05	−5	$55.^s83$	−5	33.″74	−5	$39.^s74$	−5	52.″05	0
22	16.37	+3	27.78	−5	56.11	+8	33.44	−6	39.64	−4	51.78	−3
23	16.50	+6	27.51	−4	56.42	+20	33.15	−4	39.54	−1	51.51	−6
24	16.63	+8	27.24	−1	56.75	+28	32.87	−2	39.45	+2	51.24	−7
25	16.76	+8	26.98	+3	57.09	+31	32.58	+1	39.37	+5	50.97	−7
26	16.90	+7	26.72	+6	57.45	+28	32.30	+5	39.29	+7	50.69	−5
27	17.04	+5	26.46	+8	57.83	+20	32.02	+7	39.22	+8	50.41	−1
28	17.19	+1	26.20	+9	58.23	+7	31.74	+9	39.15	+7	50.13	+2
29	17.34	−3	25.95	+8	58.64	−6	31.46	+8	39.08	+6	49.85	+6
30	17.50	−6	25.70	+5	59.07	−19	31.19	+6	39.02	+3	49.56	+8
Mai 1	17.66	−8	25.46	+2	59.53	−27	30.92	+3	38.96	−1	49.28	+8
2	17.83	−8	25.22	−3	60.00	−30	30.65	−1	38.91	−4	48.99	+7
3	18.00	−7	24.98	−6	60.49	−27	30.39	−5	38.86	−7	48.71	+5
4	18.18	−4	24.75	−9	61.00	−19	30.13	−9	38.82	−8	48.42	+1
5	18.36	−1	24.52	−11	61.52	−8	29.87	−10	38.78	−8	48.13	−3
6	18.55	+3	24.29	−10	62.06	+5	29.61	−10	38.75	−6	47.84	−7
7	18.74	+6	24.07	−8	62.62	+17	29.36	−9	38.72	−4	47.55	−9
8	18.93	+7	23.85	−4	63.19	+24	29.11	−6	38.70	−1	47.25	−10
9	19.13	+7	23.64	−1	63.78	+26	28.86	−1	38.68	+2	46.96	−9
10	19.33	+6	23.43	+3	64.38	+22	28.62	+2	38.67	+4	46.67	−6
11	19.54	+3	23.22	+6	65.00	+13	28.38	+6	38.66	+5	46.38	−2
12	19.75	0	23.02	+7	65.64	+2	28.14	+7	38.66	+5	46.08	+2
13	19.96	−4	22.82	+7	66.29	−10	27.91	+8	38.66	+4	45.79	+6
14	20.18	−6	22.63	+5	66.96	−21	27.68	+6	38.67	+2	45.49	+8
15	20.40	−7	22.44	+3	67.64	−26	27.46	+4	38.68	−1	45.20	+9
16	20.62	−7	22.26	−1	68.34	−26	27.24	0	38.70	−3	44.90	+8
17	20.85	−5	22.08	−3	69.06	−20	27.03	−3	38.72	−5	44.61	+5
18	21.08	−2	21.91	−5	69.79	−10	26.82	−5	38.75	−5	44.31	+2
19	21.32	+1	21.74	−6	70.53	+3	26.61	−6	38.79	−4	44.02	−2
20	21.56	+5	21.58	−4	71.28	+16	26.41	−5	38.83	−2	43.73	−5
21	21.80	+7	21.42	−2	72.05	+26	26.21	−3	38.87	+1	43.43	−7
22	22.05	+8	21.26	+1	72.83	+31	26.01	0	38.92	+4	43.14	−7
23	22.30	+8	21.11	+5	73.63	+30	25.82	+3	38.97	+6	42.85	−6
24	22.55	+6	20.96	+7	74.44	+24	25.63	+7	39.03	+8	42.56	−3
25	22.81	+2	20.82	+9	75.26	+13	25.45	+8	{39.09 39.16	+8 +7	42.27 41.98	+1 +4
26	23.06	−1	20.69	+9	76.09	−1	25.27	+9	39.23	+4	41.69	+7
27	23.32	−5	20.56	+7	76.94	−13	25.10	+7	39.30	+1	41.41	+8
28	23.58	−7	20.44	+3	77.80	−24	24.93	+4	39.38	−3	41.12	+8
sec δ, tg δ	+13.62		+13.58		+49.45		+49.44		+12.28		+12.24	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$6^h 59^m$	in 0.01^s	+87° 11′	in 0.01″	$9^h 24^m$	in 0.01^s	+81° 43′	in 0.01″	$16^h 54^m$	in 0.01^s	+82° 10′	in 0.01″
April 21	70.65^s	− 5	41.29″	+ 5	54.98^s	−1	2.89″	+ 6	57.33^s	+3	31.75″	+1
22	70.27	− 7	41.18	+ 1	54.85	−2	2.97	+ 3	57.43	+2	32.00	+4
23	69.89	− 8	41.07	− 2	54.72	−3	3.05	− 1	57.52	0	32.26	+7
24	69.52	− 7	40.95	− 6	54.59	−3	3.12	− 4	57.61	−1	32.52	+8
25	69.15	− 3	40.82	− 9	54.46	−2	3.19	− 7	57.70	−3	32.78	+7
26	68.79	+ 1	40.69	−10	54.33	−1	3.25	− 9	57.79	−4	33.05	+5
27	68.43	+ 6	40.55	− 9	54.20	0	3.31	−10	57.87	−4	33.32	+2
28	68.08	+10	40.41	− 6	54.07	+2	3.36	− 8	57.95	−4	33.60	−2
29	67.73	+11	40.26	− 2	53.94	+3	3.41	− 5	58.03	−3	33.87	−5
30	67.38	+11	40.11	+ 2	53.81	+4	3.45	− 1	58.11	−1	34.15	−8
Mai 1	67.04	+ 9	39.95	+ 6	53.68	+4	3.48	+ 3	58.19	+1	34.43	−9
2	66.70	+ 4	39.79	+ 8	53.55	+3	3.51	+ 7	58.26	+3	34.71	−7
3	66.37	− 1	39.62	+ 9	53.42	+1	3.54	+ 9	58.33	+4	35.00	−5
4	66.04	− 7	39.45	+ 9	53.28	−1	3.56	+10	58.40	+5	35.30	−1
5	65.72	−11	39.28	+ 6	53.15	−3	3.57	+ 9	58.46	+5	35.59	+3
6	65.40	−14	39.10	+ 3	53.02	−4	3.58	+ 6	58.52	+4	35.88	+7
7	65.09	−14	38.91	− 1	52.89	−5	3.58	+ 2	58.58	+2	36.18	+9
8	64.78	−12	38.72	− 4	52.76	−4	3.57	− 1	58.64	+1	36.48	+9
9	64.48	− 8	38.53	− 7	52.63	−3	3.56	− 5	58.69	−1	36.79	+8
10	64.18	− 2	38.33	− 8	52.50	−2	3.55	− 6	58.74	−3	37.09	+5
11	63.89	+ 3	38.12	− 7	52.37	0	3.53	− 7	58.79	−3	37.39	+1
12	63.60	+ 8	37.91	− 4	52.24	+2	3.50	− 6	58.83	−3	37.70	−3
13	63.32	+10	37.70	− 1	52.11	+3	3.46	− 3	58.87	−2	38.01	−6
14	63.05	+11	37.48	+ 3	51.98	+4	3.42	0	58.91	−1	38.32	−8
15	62.78	+ 9	37.26	+ 6	51.85	+4	3.37	+ 4	58.95	0	38.63	−9
16	62.52	+ 6	37.03	+ 8	51.72	+3	3.32	+ 6	58.99	+2	38.94	−7
17	62.27	+ 1	36.80	+ 8	51.59	+1	3.26	+ 7	59.02	+3	39.25	−5
18	62.02	− 3	36.57	+ 6	51.46	0	3.19	+ 6	59.05	+3	39.57	−1
19	61.78	− 7	36.34	+ 3	51.34	−2	3.12	+ 4	59.08	+2	39.89	+3
20	61.54	− 8	36.10	− 1	51.22	−3	3.05	+ 1	59.10	+1	40.21	+6
21	61.31	− 7	35.86	− 5	51.10	−3	2.97	− 3	59.12	0	40.53	+8
22	61.08	− 5	35.61	− 8	50.97	−3	2.88	− 7	59.14	−2	40.85	+8
23	60.86	− 1	35.36	−10	50.85	−1	2.79	− 9	59.15	−4	41.17	+6
24	60.65	+ 4	35.10	− 9	50.73	0	2.69	−10	59.16	−5	41.49	+3
25	60.45	+ 8	34.85	− 7	50.61	+2	2.58	− 9	59.17	−5	41.81	−1
26	60.25	+11	34.59	− 4	50.49	+3	2.47	− 7	59.18	−4	42.13	−4
27	60.06	+12	34.33	0	50.37	+4	2.35	− 3	59.18	−2	42.45	−7
28	59.88	+10	34.06	+ 4	50.25	+4	2.23	+ 2	59.18	0	42.77	−8
sec δ, tg δ	+20.43		+20.40		+6.94		+6.87		+7.35		+7.28	

1913	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$18^h\,0^m$	in 0.01^s	$+86°36'$	in $0.01''$	$19^h\,7^m$	in 0.01^s	$+89°0'$	in $0.01''$	$20^h\,48^m$	in 0.01^s	$+82°12'$	in $0.01''$
	s		"		s		"		s		"	
April 21	25.96	+ 6	25.52	−1	17.96	+20	13.91	−2	51.59	+2	12.94	− 4
22	26.24	+ 5	25.71	+3	19.06	+21	14.02	+2	51.75	+3	12.93	0
23	26.52	+ 3	25.90	+6	20.15	+17	14.13	+6	51.91	+3	12.92	+ 3
24	26.79	0	26.10	+8	21.23	+ 7	14.25	+8	52.07	+2	12.92	+ 7
25	27.06	− 4	26.30	+9	22.30	− 5	14.38	+9	52.22	+1	12.92	+ 9
26	27.32	− 8	26.51	+7	23.36	−18	14.51	+9	52.38	0	12.93	+10
27	27.58	−10	26.72	+4	24.42	−28	14.64	+6	52.54	−2	12.95	+ 9
28	27.83	−10	26.94	0	25.46	−33	14.78	+2	52.70	−3	12.98	+ 6
29	28.08	− 9	27.16	−4	26.49	−32	14.93	−2	52.86	−4	13.01	+ 2
30	28.33	− 6	27.39	−7	27.51	−25	15.08	−6	53.02	−4	13.05	− 2
Mai 1	28.57	− 1	27.62	−9	28.52	−12	15.24	−8	53.18	−3	13.09	− 6
2	28.81	+ 4	27.85	−8	29.52	+ 4	15.40	−9	53.34	−1	13.14	− 9
3	29.04	+ 8	28.09	−7	30.50	+20	15.57	−8	53.50	+1	13.20	−10
4	29.26	+11	28.33	−4	31.47	+33	15.74	−6	53.65	+3	13.26	− 9
5	29.48	+12	28.57	+1	32.43	+40	15.92	−2	53.81	+4	13.33	− 6
6	29.70	+11	28.82	+4	33.38	+41	16.10	+1	53.96	+5	13.40	− 3
7	29.91	+ 8	29.07	+7	34.31	+34	16.29	+5	54.12	+5	13.48	+ 1
8	30.11	+ 4	29.33	+9	35.23	+22	16.48	+7	54.27	+4	13.56	+ 4
9	30.31	0	29.59	+8	36.13	+ 7	16.68	+8	54.42	+2	13.65	+ 7
10	30.50	− 4	29.85	+6	37.02	− 8	16.88	+7	54.57	0	13.74	+ 7
11	30.68	− 7	30.12	+3	37.90	−20	17.09	+4	54.73	−2	13.84	+ 6
12	30.86	− 8	30.39	−1	38.76	−28	17.30	+1	54.88	−3	13.95	+ 4
13	31.04	− 7	30.66	−5	39.60	−29	17.51	−3	55.03	−4	14.06	0
14	31.21	− 5	30.94	−8	40.43	−24	17.73	−6	55.18	−4	14.18	− 3
15	31.37	− 2	31.22	−9	41.24	−14	17.95	−8	55.33	−3	14.30	− 6
16	31.53	+ 2	31.50	−8	42.04	− 2	18.18	−8	55.48	−2	14.43	− 7
17	31.68	+ 5	31.78	−6	42.82	+10	18.41	−7	55.63	0	14.57	− 7
18	31.83	+ 6	32.07	−2	43.58	+18	18.65	−4	55.78	+1	14.71	− 5
19	31.97	+ 6	32.36	+2	44.33	+22	18.89	0	55.92	+3	14.86	− 2
20	32.10	+ 4	32.65	+5	45.06	+19	19.13	+4	56.07	+3	15.01	+ 2
21	32.23	+ 1	32.94	+8	45.76	+11	19.38	+8	56.21	+3	15.17	+ 6
22	32.35	− 3	33.24	+9	46.45	0	19.63	+9	56.35	+2	15.34	+ 8
23	32.47	− 6	33.54	+8	47.13	−14	19.89	+9	56.49	0	15.51	+10
24	32.58	− 9	33.84	+5	47.79	−25	20.15	+7	56.63	−1	15.68	+ 9
25	32.68	−10	34.14	+2	48.43	−33	20.41	+4	56.77	−4	15.86	+ 7
26	32.78	−10	34.45	−2	49.05	−34	20.67	0	56.91	−4	16.05	+ 4
27	32.87	− 7	34.76	−6	49.65	−29	20.94	−4	57.05	−4	16.24	− 1
28	32.95	− 3	35.06	−8	50.23	−18	21.21	−7	57.18	−3	16.44	− 5
sec δ, tg δ	+16.90		+16.87		+57.56		+57.55		+7.37		+7.30	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$ s	in 0.01 s	+85° 47′ ″	in 0.01 ″	$1^h 27^m$ s	in 0.01 s	+88° 50′ ″	in 0.01 ″	$4^h 8^m$ s	in 0.01 s	+85° 19′ ″	in 0.01 ″
Mai 28	23.58	−7	20.44	+ 3	17.80	−24	24.93	+ 4	39.38	−3	41.12	+ 8
29	23.85	−8	20.32	− 1	18.66	−30	24.77	0	39.47	−5	40.84	+ 6
30	24.12	−7	20.20	− 5	19.54	−29	24.61	− 4	39.56	−8	40.56	+ 2
31	24.39	−5	20.09	− 8	20.43	−23	24.46	− 7	39.66	−8	40.28	− 2
Juni 1	24.66	−2	19.99	−10	21.34	−12	24.31	−10	39.76	−7	40.00	− 5
2	24.94	+1	19.89	−10	22.25	0	24.17	−11	39.87	−5	39.73	− 8
3	25.21	+5	19.80	− 9	23.18	+12	24.03	− 9	39.98	−2	39.45	−10
4	25.49	+7	19.71	− 6	24.11	+21	23.90	− 7	40.09	+1	39.18	− 9
5	25.77	+7	19.63	− 2	25.05	+26	23.77	− 3	40.21	+3	38.91	− 7
6	26.05	+6	19.55	+ 2	26.00	+24	23.65	+ 1	40.33	+5	38.64	− 4
7	26.34	+4	19.48	+ 5	26.96	+17	23.53	+ 4	40.46	+5	38.37	0
8	26.63	+1	19.42	+ 7	27.93	+ 6	23.42	+ 7	40.59	+4	38.11	+ 4
9	26.92	−3	19.36	+ 7	28.91	− 6	23.31	+ 8	40.73	+2	37.85	+ 7
10	27.21	−6	19.30	+ 6	29.89	−17	23.20	+ 7	40.87	0	37.59	+ 9
11	27.50	−7	19.25	+ 5	30.89	−25	23.10	+ 5	41.01	−3	37.33	+ 8
12	27.80	−8	19.21	+ 1	31.89	−27	23.01	+ 2	41.16	−4	37.08	+ 6
13	28.09	−6	19.17	− 2	32.90	−23	22.92	− 1	41.31	−5	36.83	+ 3
14	28.39	−3	19.14	− 5	33.92	−15	22.84	− 4	41.47	−5	36.58	− 1
15	28.68	0	19.11	− 6	34.94	− 3	22.77	− 6	41.63	−3	36.33	− 4
16	28.98	+3	19.09	− 5	35.97	+11	22.70	− 6	41.80	0	36.09	− 7
17	29.28	+6	19.07	− 3	37.00	+22	22.63	− 4	41.97	+3	35.85	− 7
18	29.58	+8	19.06	0	38.04	+29	22.57	− 1	42.14	+5	35.61	− 6
19	29.88	+8	19.06	+ 4	39.09	+31	22.52	+ 2	42.32	+7	35.37	− 4
20	30.19	+7	19.06	+ 7	40.14	+27	22.47	+ 5	42.50	+8	35.14	− 1
21	30.49	+4	19.07	+ 9	41.20	+18	22.43	+ 8	42.69	+7	34.91	+ 3
22	30.80	0	19.08	+ 9	42.26	+ 5	22.39	+ 9	42.88	+5	34.68	+ 6
23	31.10	−3	19.10	+ 8	43.33	− 9	22.36	+ 8	43.07	+2	34.46	+ 8
24	31.41	−6	19.12	+ 5	44.40	−21	22.33	+ 6	43.27	−1	34.24	+ 8
25	31.71	−8	19.15	+ 1	45.48	−28	22.31	+ 2	43.47	−4	34.02	+ 7
26	32.02	−8	19.18	− 3	46.56	−30	22.29	− 2	43.67	−7	33.81	+ 4
27	32.32	−6	19.22	− 7	47.64	−26	22.28	− 6	43.88	−8	33.60	0
28	32.63	−3	19.27	−10	48.73	−17	22.27	− 9	44.09	−8	33.40	− 4
29	32.93	0	19.32	−11	49.82	− 5	22.27	−10	44.30	−6	33.20	− 7
30	33.24	+3	19.38	−10	50.91	+ 8	22.27	−10	44.52	−3	33.00	− 9
Juli 1	33.55	+6	19.44	− 7	52.00	+18	22.28	− 8	44.74	0	32.81	−10
2	33.86	+7	19.51	− 4	53.10	+24	22.30	− 5	44.97	+2	32.62	− 8
3	34.16	+7	19.58	0	54.20	+25	22.32	− 1	45.20	+4	32.43	− 5
4	34.47	+5	19.66	+ 4	55.30	+20	22.35	+ 3	45.43	+5	32.25	− 1
sec δ, tg δ	+13.62		+13.58		+49.38		+49.37		+12.27		+12.23	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$6^h 59^m$	in $0^s.01$	+87° 11′	in $0''.01$	$9^h 24^m$	in $0^s.01$	+81° 42′	in $0''.01$	$16^h 54^m$	in $0^s.01$	+82° 10′	in $0''.01$
Mai 28	$59^s.88$	+10	$34''.06$	+ 4	$50^s.25$	+4	$62''.23$	+ 2	$59^s.18$	0	$42''.77$	−8
29	59.71	+ 6	33.79	+ 7	50.14	+3	62.10	+ 6	59.18	+2	43.09	−8
30	59.54	+ 1	33.51	+ 9	50.03	+2	61.97	+ 8	59.17	+3	43.41	−6
31	59.38	− 5	33.24	+ 9	49.92	0	61.84	+10	59.16	+5	43.73	−3
Juni 1	59.22	−10	32.96	+ 7	49.81	−2	61.70	+ 9	59.15	+5	44.05	+2
2	59.07	−13	32.68	+ 4	49.69	−4	61.55	+ 7	59.14	+4	44.37	+5
3	58.93	−14	32.39	0	49.58	−4	61.40	+ 4	59.12	+3	44.68	+8
4	58.80	−13	32.11	− 3	49.47	−5	61.25	0	59.10	+1	45.00	+9
5	58.67	−10	31.82	− 6	49.36	−4	61.09	− 3	59.08	0	45.32	+9
6	58.55	− 5	31.53	− 7	49.25	−2	60.92	− 6	59.06	−2	45.64	+6
7	58.44	+ 1	31.24	− 7	49.15	−1	60.75	− 7	59.03	−3	45.96	+3
8	58.34	+ 6	30.95	− 5	49.05	+1	60.58	− 6	59.00	−3	46.27	−1
9	58.24	+ 9	30.65	− 2	48.95	+3	60.40	− 4	58.97	−3	46.58	−5
10	58.15	+11	30.35	+ 2	48.85	+4	60.22	− 1	58.93	−1	46.89	−8
11	58.07	+10	30.05	+ 5	48.75	+4	60.03	+ 2	58.89	0	47.20	−9
12	58.00	+ 7	29.75	+ 7	48.66	+3	59.84	+ 5	58.85	+1	47.51	−8
13	57.93	+ 3	29.45	+ 8	48.56	+2	59.64	+ 7	58.81	+2	47.82	−6
14	57.87	− 2	29.14	+ 7	48.47	+1	59.44	+ 7	58.76	+3	48.13	−3
15	57.82	− 6	28.84	+ 4	48.38	−1	59.24	+ 5	58.71	+3	48.44	+1
16	57.78	− 8	28.53	+ 1	48.29	−3	59.03	+ 2	58.66	+2	48.75	+5
17	57.74	− 8	28.22	− 3	48.20	−3	58.81	− 1	58.61	0	49.05	+7
18	57.71	− 6	27.91	− 7	48.12	−3	58.59	− 5	58.55	−2	49.35	+8
19	57.69	− 2	27.60	− 9	48.04	−2	58.37	− 8	58.49	−3	49.65	+7
20	57.68	+ 2	27.29	−10	47.96	−1	58.14	−10	58.43	−4	49.95	+4
21	57.67	+ 7	26.97	− 9	47.88	+1	57.91	−10	58.36	−5	50.25	+1
22	57.68	+10	26.66	− 6	47.80	+2	57.68	− 8	58.29	−4	50.54	−3
23	57.69	+12	26.34	− 2	47.72	+4	57.45	− 4	58.22	−3	50.83	−6
24	57.71	+11	26.03	+ 3	47.65	+4	57.21	0	58.15	−1	51.12	−8
25	57.73	+ 8	25.71	+ 6	47.58	+4	56.97	+ 4	58.08	+1	51.41	−9
26	57.77	+ 3	25.40	+ 9	47.51	+2	56.72	+ 8	58.00	+3	51.69	−7
27	57.81	− 2	25.08	+ 9	47.44	+1	56.46	+ 9	57.92	+4	51.97	−4
28	57.86	− 8	24.76	+ 8	47.37	−1	56.20	+10	57.83	+5	52.25	0
29	57.91	−12	24.44	+ 6	47.30	−3	55.94	+ 8	57.75	+5	52.53	+4
30	57.97	−14	24.12	+ 2	47.24	−4	55.68	+ 5	57.66	+4	52.80	+7
Juli 1	58.04	−14	23.81	− 2	47.18	−5	55.41	+ 1	57.57	+2	53.07	+9
2	58.12	−11	23.49	− 5	47.12	−4	55.14	− 2	57.48	0	53.34	+9
3	58.20	− 7	23.17	− 7	47.06	−3	54.87	− 5	57.39	−1	53.61	+8
4	58.29	− 1	22.85	− 7	47.00	−2	54.59	− 6	57.29	−3	53.87	+5
sec δ, tg δ	+20.41		+20.38		+6.94		+6.87		+7.35		+7.28	

1913	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$18^h 0^m$	in 0.01^s	$+86° 36'$	in $0.01''$	$19^h 7^m$	in 0.01^s	$+89° 0'$	in $0.01''$	$20^h 48^m$	in 0.01^s	$+82° 12'$	in $0.01''$
Mai 28	$32^s.95$	−3	$35''.06$	−8	$50^s.23$	−18	$21''.21$	−7	$57^s.18$	−3	$16''.44$	−5
29	33.03	+2	35.37	−9	50.80	−3	21.49	−9	57.31	−2	16.64	−8
30	33.10	+6	35.68	−7	51.35	+13	21.77	−9	57.44	0	16.85	−9
31	33.17	+10	35.99	−5	51.87	+28	22.05	−7	57.57	+2	17.06	−9
Juni 1	33.23	+12	36.31	−1	52.37	+37	22.33	−4	57.70	+4	17.27	−7
2	33.28	+11	36.62	+3	52.86	+41	22.61	0	57.83	+5	17.49	−4
3	33.33	+9	36.94	+6	53.33	+38	22.90	+4	57.95	+5	17.72	0
4	33.37	+6	37.25	+8	53.77	+28	23.20	+7	58.07	+4	17.95	+3
5	33.40	+1	37.57	+9	54.19	+14	23.49	+8	58.19	+3	18.19	+6
6	33.43	−3	37.89	+7	54.60	−2	23.79	+8	58.31	+1	18.43	+7
7	33.45	−6	38.21	+4	54.99	−15	24.09	+6	58.43	−1	18.67	+6
8	33.46	−8	38.53	0	55.36	−25	24.39	+2	58.54	−2	18.92	+4
9	33.47	−8	38.85	−4	55.71	−29	24.69	−1	58.65	−4	19.17	+2
10	33.47	−6	39.17	−7	56.03	−26	24.99	−5	58.76	−4	19.43	−2
11	33.46	−3	39.49	−9	56.33	−18	25.30	−7	58.87	−4	19.69	−5
12	33.45	0	39.81	−9	56.61	−7	25.61	−8	58.98	−2	19.95	−7
13	33.43	+4	40.13	−7	56.88	+5	25.92	−7	59.09	−1	20.21	−7
14	33.40	+6	40.45	−4	57.12	+16	26.24	−5	59.19	+1	20.48	−6
15	33.37	+6	40.77	0	57.34	+21	26.55	−1	59.29	+2	20.76	−3
16	33.33	+5	41.09	+4	57.54	+21	26.87	+3	59.39	+3	21.04	0
17	33.29	+2	41.42	+7	57.72	+15	27.18	+6	59.49	+3	21.32	+4
18	33.24	−1	41.74	+9	57.87	+5	27.50	+9	59.58	+3	21.61	+8
19	33.18	−5	42.06	+8	58.01	−9	27.82	+9	59.68	+1	21.90	+9
20	33.12	−8	42.38	+6	58.12	−21	28.14	+8	59.77	−1	22.19	+10
21	33.05	−10	42.71	+3	58.21	−31	28.46	+6	59.86	−2	22.49	+8
22	32.97	−10	43.03	−1	58.28	−35	28.79	+2	59.95	−4	22.79	+5
23	32.89	−8	43.35	−5	58.33	−32	29.11	−2	60.03	−4	23.09	+1
24	32.80	−5	43.67	−8	58.35	−24	29.44	−6	60.11	−4	23.40	−3
25	32.70	0	43.98	−9	58.35	−10	29.76	−8	60.19	−3	23.71	−7
26	32.60	+4	44.30	−8	58.34	+6	30.09	−9	60.27	−1	24.02	−9
27	32.49	+9	44.61	−6	58.30	+22	30.42	−8	60.34	+1	24.34	−10
28	32.38	+11	44.93	−3	58.24	+34	30.75	−5	60.41	+3	24.66	−8
29	32.26	+12	45.24	+1	58.16	+40	31.07	−2	60.48	+4	24.98	−6
30	32.13	+10	45.55	+5	58.06	+40	31.40	+2	60.55	+5	25.30	−2
Juli 1	32.00	+8	45.86	+8	57.94	+32	31.73	+6	60.61	+5	25.63	+2
2	31.86	+3	46.17	+9	57.79	+20	32.06	+7	60.67	+4	25.96	+5
3	31.72	−1	46.48	+8	57.62	+5	32.39	+8	60.73	+2	26.29	+7
4	31.57	−5	46.79	+6	57.43	−10	32.72	+6	60.79	0	26.62	+7
sec δ, tg δ	+16.92		+16.89		+57.72		+57.71		+7.37		+7.30	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 47′	in $''$ 0.01	$1^h 27^m$	in ^{s} 0.01	+88° 50′	in $''$ 0.01	$4^h 8^m$	in ^{s} 0.01	+85° 19′	in $''$ 0.01
Juli 4	34.47	+5	19.66	+ 4	55.30	+20	22.35	+ 3	45.43	+5	32.25	− 1
5	34.77	+2	19.75	+ 6	56.40	+10	22.38	+ 6	45.66	+5	32.07	+ 3
6	35.08	−1	19.84	+ 7	57.51	− 1	22.42	+ 7	45.90	+3	31.90	+ 6
7	35.38	−4	19.93	+ 7	58.61	−13	22.46	+ 7	46.14	+1	31.73	+ 8
8	35.69	−7	20.03	+ 5	59.72	−22	22.51	+ 5	46.38	−2	31.56	+ 9
9	35.99	−8	20.14	+ 2	60.82	−27	22.57	+ 3	46.63	−4	31.40	+ 7
10	36.30	−7	20.25	− 1	61.93	−26	22.63	0	46.88	−5	31.24	+ 4
11	36.60	−5	20.37	− 4	63.03	−19	22.69	− 3	47.13	−5	31.09	+ 1
12	36.90	−1	20.49	− 6	64.14	− 8	22.76	− 5	47.39	−4	30.94	− 3
13	37.20	+2	20.62	− 5	65.24	+ 7	22.84	− 6	47.64	−2	30.79	− 6
14	37.50	+5	20.75	− 4	66.34	+18	22.92	− 5	47.90	+1	30.65	− 7
15	37.80	+8	20.89	− 1	67.44	+27	23.01	− 2	48.16	+4	30.51	− 7
16	38.10	+8	21.03	+ 2	68.54	+31	23.10	+ 1	48.43	+6	30.38	− 5
17	38.40	+7	21.18	+ 5	69.64	+29	23.20	+ 4	48.70	+8	30.25	− 2
18	38.69	+5	21.33	+ 8	70.74	+22	23.30	+ 7	48.97	+8	30.12	+ 2
19	38.98	+2	21.49	+ 9	71.84	+10	23.41	+ 9	49.24	+6	30.00	+ 5
20	39.27	−2	21.65	+ 9	72.93	− 3	23.52	+ 9	49.52	+4	29.88	+ 8
21	39.56	−5	21.82	+ 6	74.02	−16	23.64	+ 7	49.79	0	29.77	+ 9
22	39.85	−7	21.99	+ 3	75.10	−25	23.76	+ 4	50.07	−3	29.66	+ 8
23	40.14	−8	22.17	− 1	76.19	−30	23.89	0	50.35	−6	29.56	+ 5
24	40.43	−7	22.35	− 5	77.27	−28	24.03	− 4	50.64	−8	29.46	+ 2
25	40.72	−5	22.54	− 9	78.35	−21	24.17	− 8	50.92	−8	29.37	− 2
26	41.00	−1	22.73	−10	79.42	−10	24.31	−10	51.21	−7	29.28	− 6
27	41.28	+2	22.93	−10	80.49	+ 3	24.46	−11	51.50	−4	29.20	− 9
28	41.56	+5	23.13	− 8	81.55	+15	24.61	− 9	51.79	−2	29.12	−10
29	41.84	+7	23.34	− 5	82.61	+23	24.77	− 6	52.08	+1	29.04	− 9
30	42.11	+7	23.55	− 1	83.67	+26	24.93	− 3	52.37	+4	28.97	− 7
31	42.38	+6	23.77	+ 2	84.72	+23	25.10	+ 1	52.66	+5	28.90	− 3
Aug. 1	42.65	+3	23.99	+ 5	85.76	+15	25.28	+ 5	52.96	+5	28.84	+ 1
2	42.92	0	24.21	+ 7	86.80	+ 3	25.46	+ 7	53.26	+4	28.78	+ 5
3	43.19	−3	24.44	+ 7	87.83	− 9	25.64	+ 7	53.56	+2	28.73	+ 8
4	43.45	−6	24.67	+ 5	88.86	−19	25.83	+ 6	53.86	−1	28.68	+ 9
5	43.71	−8	24.91	+ 3	89.88	−26	26.02	+ 4	54.16	−3	28.64	+ 8
6	43.97	−7	25.15	0	90.90	−27	26.22	+ 1	54.46	−5	28.60	+ 6
7	44.23	−6	25.40	− 3	91.91	−22	26.42	− 2	54.77	−6	28.57	+ 2
8	44.49	−3	25.65	− 5	92.91	−13	26.63	− 5	55.07	−5	28.54	− 2
9	44.74	+1	25.91	− 6	93.91	0	26.84	− 6	55.38	−3	28.52	− 5
10	44.99	+4	26.17	− 5	94.90	+13	27.06	− 5	55.69	0	28.50	− 7
sec δ, tg δ	+13.62		+13.58		+49.39		+49.38		+12.27		+12.23	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$6^h 59^m$	in ^{s} 0.01	$+87° 11'$	in $''$ 0.01	$9^h 24^m$	in ^{s} 0.01	$+81° 42'$	in $''$ 0.01	$16^h 54^m$	in ^{s} 0.01	$+82° 10'$	in $''$ 0.01
Juli 4	$58^s.29$	− 1	$22''.85$	− 7	$47^s.00$	−2	$54''.59$	− 6	$57^s.29$	−3	$53''.87$	+5
5	58.40	+ 4	22.53	− 6	46.95	0	54.31	− 7	57.19	−3	54.13	+1
6	58.51 58.63	+ 8 + 10	22.21 21.89	− 3 0	46.90	+2	54.02	− 5	57.09	−3	54.38	−4
7	58.75	+10	21.58	+ 4	46.85	+3	53.73	− 2	56.99	−2	54.63	−7
8	58.88	+ 8	21.26	+ 7	46.80	+4	53.44	+ 1	56.88	−1	54.88	−9
9	59.02	+ 4	20.95	+ 8	46.76	+4	53.15	+ 4	56.77	+1	55.13	−9
10	59.16	0	20.63	+ 7	46.72	+2	52.86	+ 6	56.66	+2	55.37	−7
11	59.31	− 4	20.32	+ 5	46.68	+1	52.56	+ 7	56.55	+3	55.61	−4
12	59.47	− 7	20.00	+ 2	46.64	−1	52.26	+ 6	56.43	+3	55.85	0
13	59.64	− 8	19.69	− 2	46.60	−2	51.96	+ 4	56.31	+2	56.08	+4
14	59.81	− 7	19.37	− 6	46.57	−3	51.65	0	56.19	+1	56.31	+7
15	59.99	− 4	19.06	− 8	46.54	−3	51.34	− 4	56.07	−1	56.53	+8
16	60.18	0	18.75	−10	46.51	−2	51.03	− 7	55.95	−3	56.75	+7
17	60.38	+ 5	18.44	− 9	46.48	−1	50.71	− 9	55.83	−4	56.96	+5
18	60.58	+ 9	18.13	− 7	46.46	0	50.40	−10	55.70	−5	57.17	+2
19	60.79	+12	17.82	− 3	46.44	+2	50.08	− 9	55.57	−5	57.38	−2
20	61.00	+12	17.52	+ 1	46.42	+3	49.76	− 6	55.44	−4	57.58	−5
21	61.22	+10	17.21	+ 5	46.40	+4	49.44	− 2	55.31	−2	57.78	−8
22	61.45	+ 6	16.91	+ 8	46.38	+4	49.12	+ 2	55.18	0	57.98	−9
23	61.69	0	16.61	+ 9	46.37	+3	48.79	+ 6	55.04	+2	58.17	−8
24	61.93	− 5	16.31	+ 9	46.36	+1	48.47	+ 9	54.90	+4	58.36	−5
25	62.18	−10	16.01	+ 7	46.35	0	48.14	+10	54.76	+5	58.54	−2
26	62.44	−13	15.72	+ 3	46.34	−2	47.81	+ 9	54.62	+5	58.72	+2
27	62.70	−14	15.42	0	46.34	−4	47.48	+ 7	54.48	+4	58.90	+6
28	62.97	−13	15.13	− 4	46.34	−5	47.15	+ 3	54.33	+3	59.07	+8
29	63.25	− 9	14.84	− 6	46.34	−5	46.82	− 1	54.18	+1	59.24	+9
30	63.53	− 4	14.55	− 7	46.34	−4	46.49	− 4	54.03	−1	59.40	+8
31	63.82	+ 2	14.26	− 7	46.35	−2	46.16	− 6	53.88	−2	59.56	+6
Aug. 1	64.11	+ 6	13.98	− 4	46.35	0	45.82	− 7	53.73	−3	59.71	+2
2	64.41	+ 9	13.70	− 1	46.36	+1	45.49	− 6	53.58	−3	59.86	−2
3	64.72	+10	13.42	+ 2	46.37	+3	45.15	− 3	53.43	−2	60.00	−6
4	65.03	+ 9	13.14	+ 6	46.38	+4	44.81	0	53.27	−1	60.14	−8
5	65.35	+ 6	12.87	+ 8	46.40	+4	44.47	+ 3	53.11	0	60.28	−9
6	65.68	+ 1	12.59	+ 8	46.42	+3	44.12	+ 6	52.95	+2	60.41	−8
7	66.01	− 3	12.32	+ 7	46.44	+2	43.78	+ 7	52.80	+3	60.54	−5
8	66.35	− 6	12.05	+ 5	46.46	0	43.43	+ 7	52.64	+3	60.66	−2
9	66.69	− 8	11.78	0	46.48	−1	43.09	+ 5	52.48	+2	60.78	+2
10	67.04	− 8	11.52	− 4	46.51	−3	42.74	+ 2	52.32	+1	60.89	+5
sec δ, tg δ	+20.38		+20.36		+6.94		+6.87		+7.35		+7.28	

1913	δ Ursae minoris 4ᵐ.3.				λ Ursae minoris 6ᵐ.8.				76 Draconis 6ᵐ.0.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$18^h 0^m$	in $0^s.01$	+86° 36′	in 0″.01	$19^h 7^m$	in $0^s.01$	+89° 0′	in 0″.01	$20^h 49^m$	in $0^s.01$	+82° 12′	in 0″.01
Juli 4	31.57	− 5	46.79	+6	57.43	−10	32.72	+6	0.79	0	26.62	+ 7
5	31.41	− 7	47.09	+3	57.22	−21	33.05	+3	0.85	−2	26.96	+ 5
6	31.25	− 8	47.39	−2	56.99	−28	33.38	0	0.90	−3	27.30	+ 3
7	31.08	− 6	47.69	−6	56.74	−28	33.71	−4	0.95	−4	27.64	− 1
8	30.91	− 4	47.99	−8	56.47	−22	34.04	−7	1.00	−4	27.98	− 4
9	30.73	− 1	48.28	−9	56.19	−11	34.37	−8	1.04	−3	28.32	− 6
10	30.54	+ 3	48.58	−8	55.86	+ 1	34.70	−8	1.08	−1	28.66	− 7
11	30.35	+ 5	48.87	−5	55.52	+12	35.03	−6	1.12	0	29.01	− 7
12	30.15	+ 6	49.16	−1	55.17	+20	35.35	−3	1.16	+2	29.36	− 5
13	29.94	+ 6	49.45	+2	54.79	+22	35.68	+1	1.19	+3	29.71	− 1
14	29.73	+ 4	49.74	+6	54.39	+18	36.00	+5	1.22	+3	30.06	+ 3
15	29.52	0	50.02	+8	53.97	+ 9	36.33	+8	1.25	+3	30.41	+ 6
16	29.30	− 4	50.30	+9	53.53	− 3	36.65	+8	1.28	+1	30.77	+ 9
17	29.08	− 7	50.58	+7	53.07	−17	36.98	+9	1.31	0	31.13	+10
18	28.85	−10	50.86	+5	52.58	−28	37.30	+7	1.33	−2	31.49	+ 9
19	28.61	−11	51.13	+1	52.08	−35	37.62	+3	1.35	−3	31.85	+ 7
20	28.37	− 9	51.40	−3	51.56	−34	37.94	−1	1.37	−4	32.21	+ 3
21	28.12	− 6	51.67	−6	51.02	−28	38.26	−5	1.38	−4	32.57	− 1
22	27.87	− 2	51.94	−8	50.45	−16	38.57	−8	1.39	−3	32.93	− 5
23	27.61	+ 2	52.20	−9	49.87	0	38.89	−9	1.40	−2	33.29	− 8
24	27.35	+ 7	52.46	−7	49.27	+16	39.20	−9	1.41	0	33.65	− 9
25	27.08	+10	52.72	−4	48.65	+30	39.51	−6	1.41	+2	34.01	− 9
26	26.81	+12	52.97	0	48.01	+38	39.82	−3	1.41	+4	34.38	− 7
27	26.53	+11	53.22	+4	47.35	+41	40.13	+1	1.40	+5	34.75	− 3
28	26.25	+ 9	53.46	+7	46.67	+36	40.44	+4	1.40	+5	35.12	0
29	25.96	+ 5	53.70	+9	45.97	+25	40.75	+7	1.39	+4	35.48	+ 4
30	25.67	+ 1	53.94	+9	45.25	+11	41.05	+8	1.38	+3	35.85	+ 6
31	25.37	− 3	54.18	+7	44.51	− 4	41.35	+7	1.37	+1	36.21	+ 7
Aug. 1	25.07	− 6	54.42	+3	43.76	−17	41.65	+5	1.35	−1	36.58	+ 6
2	24.76	− 8	54.65	0	42.98	−26	41.95	+1	1.33	−3	36.94	+ 4
3	24.45	− 7	54.88	−4	42.19	−28	42.24	−2	1.31	−4	37.30	+ 1
4	24.14	− 5	55.10	−7	41.38	−24	42.54	−6	1.29	−4	37.67	− 3
5	23.82	− 2	55.32	−9	40.56	−15	42.83	−8	1.26	−3	38.03	− 6
6	23.50	+ 2	55.54	−8	39.72	− 3	43.12	−8	1.23	−2	38.40	− 7
7	23.17	+ 5	55.75	−6	38.85	+ 9	43.40	−7	1.20	0	38.76	− 7
8	22.84	+ 6	55.96	−3	37.97	+18	43.69	−4	1.17	+1	39.12	− 6
9	22.50	+ 6	56.17	+1	37.07	+22	43.97	0	1.13	+3	39.49	− 3
10	22.16	+ 5	56.37	+5	36.15	+21	44.25	+4	1.09	+3	39.85	+ 1
sec δ, tg	+16.93		+16.90		+57.92		+57.91		+7.38		+7.31	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$ s	in s 0.01	+85° 47′ ″	in ″ 0.01	$1^h 28^m$ s	in s 0.01	+88° 50′ ″	in ″ 0.01	$4^h 8^m$ s	in s 0.01	+85° 19′ ″	in ″ 0.01
Aug. 10	44.99	+4	26.17	− 5	34.90	+13	27.06	− 5	55.69	0	28.50	− 7
11	45.24	+7	26.43	− 2	35.88	+24	27.28	− 3	56.00	+3	28.48	− 7
12	45.49	+8	26.70	+ 1	36.85	+30	27.50	0	56.31	+6	28.47	− 6
13	45.73	+8	26.97	+ 4	37.82	+31	27.73	+ 3	56.62	+8	28.47	− 3
14	45.97	+6	27.24	+ 7	38.78	+26	27.96	+ 6	56.93	+8	28.47	0
15	46.20	+3	27.52	+ 9	39.73	+16	28.20	+ 8	57.24	+7	28.47	+ 4
16	46.44	0	27.80	+ 9	40.67	+ 2	28.44	+ 9	57.55	+5	28.48	+ 7
17	46.67	−4	28.09	+ 7	41.61	−11	28.69	+ 8	57.87	+2	28.49	+ 8
18	46.90	−7	28.38	+ 5	42.53	−22	28.94	+ 5	58.18	−2	28.51	+ 8
19	47.12	−8	28.68	+ 1	43.45	−29	29.19	+ 2	58.50	−5	28.53	+ 7
20	47.34	−8	28.98	− 4	44.36	−29	29.45	− 3	58.81	−7	28.56	+ 3
21	47.56	−6	29.28	− 7	45.26	−24	29.71	− 7	59.13	−8	28.59	− 1
22	47.77	−3	29.58	−10	46.15	−14	29.98	− 9	59.44	−7	28.63	− 5
23	47.98	+1	29.89	−10	47.03	− 2	30.25	−10	59.76	−5	28.67	− 8
24	48.19	+4	30.20	− 9	47.90	+10	30.52	−10	60.07	−3	28.72	−10
25	48.40	+6	30.51	− 7	48.76	+20	30.80	− 8	60.39	0	28.77	−10
26	48.60	+7	30.83	− 3	49.61	+25	31.08	− 4	60.70	+3	28.83	− 8
27	48.80	+7	31.15	+ 1	50.45	+24	31.37	0	61.02	+5	28.89	− 5
28	49.00	+5	31.47	+ 4	51.28	+18	31.66	+ 3	61.33	+5	28.96	0
29	49.19	+1	31.80	+ 6	52.10	+ 8	31.95	+ 6	61.65	+4	29.03	+ 4
30	49.38	−2	32.13	+ 7	52.91	− 4	32.24	+ 7	61.96	+3	29.10	+ 7
31	49.56	−5	32.46	+ 6	53.71	−16	32.54	+ 7	62.27	0	29.18	+ 8
Sept. 1	49.74	−7	32.79	+ 4	54.49	−24	32.84	+ 5	62.59	−2	29.26	+ 8
2	49.92	−8	33.13	+ 1	55.27	−27	33.15	+ 2	62.90	−4	29.35	+ 7
3	50.09	−7	33.47	− 2	56.04	−25	33.46	− 1	63.22	−6	29.44	+ 3
4	50.26	−4	33.81	− 5	56.79	−17	33.78	− 4	63.53	−5	29.54	0
5	50.43	−1	34.16	− 6	57.53	− 5	34.09	− 6	63.84	−4	29.64	− 4
6	50.59	+3	34.51	− 5	58.26	+ 8	34.41	− 6	64.15	−1	29.75	− 6
7	50.75	+6	34.86	− 3	58.98	+20	34.73	− 4	64.46	+2	29.86	− 7
8	50.91	+8	35.21	0	59.68	+28	35.06	− 2	64.77	+5	29.98	− 7
9	51.06	+8	35.56	+ 3	60.37	+32	35.39	+ 2	65.08	+7	30.10	− 5
10	51.21	+7	35.92	+ 6	61.05	+29	35.72	+ 5	65.39	+8	30.23	− 1
11	51.36	+4	36.28	+ 9	61.72	+20	36.05	+ 8	65.70	+8	30.36	+ 3
12	51.50	+1	36.64	+ 9	62.37	+ 8	36.39	+ 9	66.00	+6	30.49	+ 6
13	51.64	−3	37.00	+ 9	63.01	− 6	36.73	+ 9	66.31	+3	30.63	+ 8
14	51.77	−6	37.37	+ 6	63.64	−18	37.07	+ 7	66.61	0	30.77	+ 9
15	51.90	−8	37.73	+ 2	64.26	−26	37.41	+ 3	66.91	−4	30.92	+ 7
16	52.02	−8	38.10	− 2	64.86	−30	37.76	− 1	67.21	−6	31.07	+ 5
sec δ, tg δ	+13.63		+13.59		+49.49		+49.48		+12.27		+12.23	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 0^m$	in $0^s.01$	+87° 11′	in $0''.01$	$9^h 24^m$	in $0^s.01$	+81° 42′	in $0''.01$	$16^h 54^m$	in $0^s.01$	+82° 11′	in $0''.01$
Aug. 10	$7^s.04$	− 8	$11''.52$	− 4	$46^s.51$	−3	$42''.74$	+ 2	$52^s.32$	+1	$0''.89$	+5
11	7.40	− 5	11.26	− 7	{46.54 {46.57	−3 −3	42.40 42.05	− 2 − 6	52.16	0	1.00	+8
12	7.76	− 1	11.00	− 9	46.60	−2	41.70	− 9	51.99	−2	1.10	+8
13	8.13	+ 3	10.75	−10	46.64	0	41.35	−10	51.82	−4	1.20	+6
14	8.50	+ 8	10.50	− 8	46.68	+1	41.00	−10	51.65	−5	1.29	+4
15	8.87	+11	10.25	− 5	46.72	+3	40.65	− 7	51.48	−5	1.38	0
16	9.25	+12	10.00	− 1	46.76	+4	40.29	− 4	51.31	−4	1.47	−4
17	9.63	+11	9.76	+ 3	46.81	+4	39.94	0	51.14	−3	1.55	−7
18	10.02	+ 7	9.52	+ 7	46.86	+3	39.59	+ 5	50.97	−1	1.63	−8
19	10.42	+ 3	9.28	+ 9	46.91	+2	39.24	+ 8	50.80	+1	1.70	−8
20	10.83	− 3	9.04	+ 9	46.96	0	38.89	+ 9	50.63	+3	1.76	−7
21	11.23	− 8	8.81	+ 8	47.01	−2	38.54	+ 9	50.46	+4	1.82	−3
22	11.64	−13	8.58	+ 5	47.06	−3	38.19	+ 8	50.28	+5	1.88	+1
23	12.06	−14	8.36	+ 1	47.12	−4	37.84	+ 5	50.10	+4	1.93	+5
24	12.48	−13	8.14	− 3	47.18	−5	37.49	+ 1	49.92	+3	1.98	+8
25	12.90	−10	7.92	− 6	47.24	−4	37.14	− 3	49.75	+2	2.02	+9
26	13.33	− 6	7.71	− 7	47.31	−3	36.80	− 5	49.57	0	2.05	+9
27	13.76	− 1	7.50	− 7	47.38	−1	36.45	− 6	49.39	−2	2.08	+7
28	14.20	+ 5	7.29	− 5	47.45	+1	36.11	− 6	49.21	−3	2.11	+4
29	14.64	+ 8	7.09	− 2	47.52	+2	35.77	− 4	49.03	−3	2.13	0
30	15.09	+10	6.89	+ 1	47.59	+3	35.42	− 1	48.85	−3	2.15	−4
31	15.54	+10	6.69	+ 5	47.67	+4	35.08	+ 2	48.67	−2	2.16	−7
Sept. 1	15.99	+ 7	6.50	+ 7	47.74	+3	34.74	+ 5	48.49	0	2.16	−9
2	16.45	+ 3	6.31	+ 8	47.82	+2	34.40	+ 7	48.31	+1	2.16	−8
3	16.91	− 1	6.13	+ 7	47.90	+1	34.06	+ 7	48.13	+2	2.15	−6
4	17.38	− 5	5.94	+ 5	47.98	−1	33.72	+ 6	47.95	+3	2.14	−3
5	17.85	− 8	5.76	+ 1	48.07	−2	33.38	+ 3	47.77	+3	2.13	+1
6	18.32	− 8	5.58	− 3	48.16	−3	33.04	− 1	47.59	+2	2.11	+4
7	18.80	− 6	5.41	− 6	48.25	−3	32.71	− 5	47.41	0	2.08	+7
8	19.28	− 3	5.25	− 9	48.34	−2	32.37	− 8	47.23	−1	2.05	+8
9	19.76	+ 2	5.09	−10	48.43	−1	32.04	−10	47.05	−3	2.01	+7
10	20.25	+ 6	4.93	− 9	48.52	+1	31.71	−10	46.87	−4	1.97	+5
11	20.74	+10	4.78	− 6	48.62	+2	31.38	− 8	46.68	−5	1.92	+1
12	21.24	+12	4.63	− 3	48.72	+3	31.05	− 5	46.50	−5	1.87	−3
13	21.74	+12	4.48	+ 2	48.82	+4	30.72	− 1	46.32	−3	1.81	−6
14	22.24	+10	4.34	+ 5	48.92	+4	30.40	+ 3	46.14	−2	1.75	−8
15	22.74	+ 5	4.20	+ 8	49.03	+3	30.08	+ 7	45.95	0	1.69	−9
16	23.24	− 1	4.07	+ 9	49.14	+1	29.76	+ 9	45.77	+2	1.62	−7
sec δ, tg δ	+20.36		+20.34		+6.94		+6.86		+7.35		+7.28	

1913	δ Ursae minoris 4ᵐ.3. AR.	☾ Gl.	Dekl.	☾ Gl.	λ Ursae minoris 6ᵐ.8. AR.	☾ Gl.	Dekl.	☾ Gl.	76 Draconis 6ᵐ.0. AR.	☾ Gl.	Dekl.	☾ Gl.
	$18^h 0^m$	in 0.01 s	+86° 36′	in 0.01″	$19^h 6^m$	in 0.01 s	+89° 0′	in 0.01″	$20^h 48^m$	in 0.01 s	+82° 12′	in 0.01″
Aug. 10	22.16	+ 5	56.37	+5	96.15	+21	44.25	+ 4	61.09	+3	39.85	+ 1
11	21.82	+ 2	56.57	+8	95.22	+14	44.52	+ 7	61.05	+3	40.21	+ 5
12	21.47	− 2	56.76	+9	94.27	+ 2	44.80	+ 9	61.01	+2	40.57	+ 8
13	21.12	− 6	56.95	+8	93.30	−12	45.07	+10	60.96	0	40.93	+10
14	20.76	− 9	57.14	+6	92.32	−24	45.34	+ 8	60.91	−1	41.29	+10
15	20.40	−11	57.32	+2	91.32	−33	45.60	+ 5	60.86	−3	41.65	+ 8
16	20.04	−10	57.50	−2	90.30	−36	45.86	+ 1	60.81	−4	42.01	+ 5
17	19.68	− 8	57.67	−5	89.27	−32	46.12	− 3	60.75	−4	42.37	0
18	19.31	− 4	57.84	−8	88.23	−22	46.38	− 7	60.69	−4	42.72	− 4
19	18.94	0	58.01	−9	87.17	− 8	46.63	− 9	60.63	−3	43.08	− 7
20	18.56	+ 5	58.17	−8	86.09	+ 9	46.88	− 9	60.57	−1	43.43	− 9
21	18.18	+ 9	58.33	−5	85.00	+24	47.13	− 7	60.50	+1	43.78	− 9
22	17.80	+11	58.48	−2	83.89	+35	47.37	− 4	60.43	+3	44.13	− 8
23	17.42	+12	58.63	+2	82.77	+40	47.61	− 1	60.36	+5	44.47	− 5
24	17.03	+10	58.77	+6	81.64	+38	47.85	+ 3	60.29	+5	44.82	− 1
25	16.64	+ 7	58.91	+8	80.49	+30	48.08	+ 6	60.22	+5	45.16	+ 2
26	16.25	+ 2	59.05	+9	79.33	+17	48.31	+ 8	60.14	+4	45.50	+ 5
27	15.85	− 2	59.18	+8	78.15	+ 2	48.54	+ 8	60.06	+2	45.84	+ 7
28	15.45	− 5	59.31	+5	76.96	−12	48.76	+ 6	59.98	0	46.18	+ 7
29	15.05	− 7	59.43	+1	75.76	−22	48.98	+ 3	59.89	−2	46.52	+ 5
30	14.64	− 7	59.55	−3	74.54	−27	49.20	− 1	59.80	−3	46.85	+ 2
31	14.23	− 6	59.66	−6	73.31	−26	49.41	− 5	59.71	−4	47.18	− 1
Sept. 1	13.82	− 3	59.77	−8	72.07	−19	49.62	− 7	59.62	−4	47.51	− 5
2	13.41	0	59.87	−9	70.81	− 8	49.82	− 8	59.53	−2	47.84	− 7
3	13.01	+ 4	59.97	−7	69.54	+ 5	50.02	− 8	59.43	−1	48.17	− 8
4	12.60	+ 6	60.07	−4	68.27	+15	50.22	− 6	59.33	+1	48.49	− 7
5	12.18	+ 7	60.16	−1	66.99	+22	50.41	− 2	59.23	+2	48.81	− 4
6	11.76	+ 6	60.25	+3	65.69	+22	50.60	+ 2	59.13	+3	49.13	− 1
7	11.34	+ 3	60.33	+7	64.38	+17	50.78	+ 6	59.02	+3	49.45	+ 4
8	10.92	0	60.40	+8	63.06	+ 7	50.96	+ 8	58.91	+2	49.76	+ 7
9	10.50	− 4	60.47	+9	61.73	− 7	51.14	+10	58.80	+1	50.07	+ 9
10	10.08	− 8	60.54	+7	60.39	−20	51.31	+ 9	58.69	−1	50.38	+10
11	9.65	−10	60.60	+4	59.04	−31	51.48	+ 6	58.58	−2	50.68	+ 9
12	9.23	−11	60.66	0	57.68	−36	51.65	+ 3	58.47	−4	50.98	+ 6
13	8.80	− 9	60.71	−4	56.31	−35	51.81	− 1	58.35	−4	51.28	+ 2
14	8.37	− 6	60.76	−7	54.93	−27	51.96	− 5	58.23	−4	51.57	− 2
15	7.93	− 2	60.80	−9	53.54	−14	52.11	− 8	58.11	−3	51.86	− 6
16	7.50	+ 3	60.84	−8	52.14	+ 2	52.26	− 9	57.99	−2	52.15	− 8
sec δ, tg δ	+16.94		+16.91		+58.08		+58.08		+7.38		+7.31	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 47′	in ″ 0.01	$1^h 29^m$	in ^{s} 0.01	+88° 50′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Sept. 16	$52^s.02$	−8	38″.10	− 2	$4^s.86$	−30	37″.76	− 1	$7^s.21$	−6	31″.07	+ 5
17	52.14	−7	38.47	− 6	5.45	−27	38.11	− 5	7.51	−8	31.23	+ 1
18	52.26	−4	38.85	− 9	6.02	−19	38.46	− 8	7.81	−8	31.39	− 3
19	52.37	−1	39.22	−10	6.58	− 7	38.81	−10	8.11	−6	31.55	− 7
20	52.48	+3	39.60	−10	7.13	+ 6	39.17	−10	8.41	−4	31.72	− 9
21	52.58	+6	39.97	− 8	7.66	+17	39.53	− 9	8.71	−1	31.89	−10
22	52.68	+7	40.35	− 5	8.18	+24	39.89	− 6	9.00	+2	32.07	− 9
23	52.78	+7	40.73	− 1	8.69	+25	40.25	− 2	9.29	+4	32.25	− 6
24	52.87	+5	41.11	+ 3	9.18	+21	40.62	+ 2	9.58	+6	32.43	− 2
25	52.96	+3	41.49	+ 5	9.65	+12	40.98	+ 5	9.87	+5	32.62	+ 2
26	53.04	−1	41.87	+ 7	10.11	+ 1	41.35	+ 7	10.15	+3	32.81	+ 5
27	53.12	−4	42.25	+ 6	10.56	−12	41.72	+ 7	10.44	+1	33.01	+ 8
28	53.20	−6	42.64	+ 5	10.99	−21	42.09	+ 6	10.72	−1	33.21	+ 8
29	53.27	−8	43.02	+ 2	11.41	−27	42.46	+ 3	11.00	−4	33.42	+ 7
30	53.33	−7	43.41	− 1	11.81	−27	42.84	0	11.28	−5	33.63	+ 5
Okt. 1	53.39	−5	43.79	− 4	12.19	−21	43.21	− 3	11.55	−6	33.84	+ 1
2	53.45	−2	44.18	− 6	12.56	−10	43.59	− 5	11.82	−5	34.06	− 2
3	53.50	+1	44.57	− 6	12.91	+ 2	43.97	− 6	12.09	−2	34.28	− 5
4	53.55	+5	44.96	− 4	13.25	+16	44.35	− 5	12.36	+1	34.50	− 7
5	53.60	+7	45.35	− 2	13.57	+26	44.73	− 3	12.63	+4	34.73	− 7
6	53.64	+8	45.74	+ 2	13.88	+31	45.12	0	12.89	+6	34.96	− 6
7	53.68	+8	46.13	+ 5	14.17	+31	45.50	+ 4	13.15	+8	35.20	− 3
8	53.71	+6	46.52	+ 8	14.45	+24	45.88	+ 7	13.41	+8	35.44	+ 1
9	53.73	+2	46.90	+ 9	14.71	+13	46.27	+ 9	13.67	+7	35.68	+ 5
10	53.75	−1	47.29	+ 9	14.95	0	46.65	+ 9	13.93	+5	35.93	+ 7
11	53.77	−5	47.68	+ 7	15.18	−13	47.03	+ 8	14.18	+1	36.18	+ 9
12	53.78	−7	48.07	+ 4	15.39	−24	47.42	+ 5	14.43	−2	36.43	+ 8
13	53.79	−8	48.45	0	15.59	−29	47.81	+ 1	14.68	−5	36.69	+ 6
14	53.80	−7	48.84	− 4	15.77	−28	48.20	− 3	14.92	−7	36.95	+ 3
15	53.80	−5	49.22	− 8	15.93	−22	48.59	− 7	15.16	−8	37.21	− 1
16	53.80	−2	49.61	−10	16.07	−12	48.97	−10	15.40	−7	37.48	− 5
17	53.79	+1	49.99	−10	16.20	+ 1	49.36	−10	15.63	−5	37.75	− 8
18	53.77	+5	50.38	− 9	16.31	+13	49.75	− 9	15.86	−2	38.02	−10
19	53.75	+7	50.76	− 6	16.40	+21	50.14	− 7	16.09	+1	38.30	− 9
20	53.73	+7	51.15	− 2	16.48	+25	50.52	− 3	16.32	+3	38.58	− 7
21	53.70	+6	51.53	+ 1	16.54	+23	50.91	0	16.54	+5	38.86	− 4
22	53.67	+4	51.91	+ 5	16.58	+16	51.30	+ 4	16.76	+5	39.14	0
23	53.63	+1	52.29	+ 6	16.61	+ 5	51.69	+ 6	16.98	+4	39.43	+ 4
sec δ, tg δ	+13.64		+13.60		+49.67		+49.66		+12.27		+12.23	

1913	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 0^m$	in $0.^s01$	$+87° 11'$	in $0.''01$	$9^h 24^m$	in $0.^s01$	$+81° 42'$	in $0.''01$	$16^h 54^m$	in $0.^s01$	$+82° 10'$	in $0.''01$
Sept. 16	$23.^s24$	−1	$4.''07$	+9	$49.^s14$	+1	$29.''76$	+9	$45.^s77$	+2	$61.''62$	−7
17	23.75	−6	3.94	+8	49.25	−1	29.44	+9	45.59	+4	61.54	−5
18	24.26	−11	3.81	+6	49.36	−3	29.12	+8	45.41	+5	61.46	−1
19	24.77	−14	3.69	+3	49.47	−4	28.81	+6	45.23	+5	61.37	+3
20	25.28	−14	3.57	−1	49.59	−5	28.51	+2	45.05	+4	61.28	+7
21	25.80	−12	3.46	−5	49.70	−4	28.20	−1	44.87	+2	61.18	+9
22	26.32	−8	3.35	−7	49.82	−3	27.89	−4	44.69	+1	61.08	+9
23	26.84	−3	3.25	−7	49.94	−2	27.59	−6	44.51	−1	60.97	+8
24	27.36	+2	3.15	−6	50.06	0	27.29	−6	44.33	−2	60.86	+5
25	27.88	+7	3.06	−4	50.18	+2	27.00	−5	44.16	−3	60.75	+1
26	28.41	+10	2.97	0	50.31	+3	26.70	−2	43.99	−3	60.63	−3
27	28.94	+10	2.88	+4	50.44	+4	26.41	+1	43.81	−2	60.50	−6
28	29.47	+8	2.80	+6	50.57	+4	26.12	+4	43.63	−1	60.37	−8
29	30.00	+5	2.73	+8	50.70	+2	25.83	+6	43.46	+1	60.23	−9
30	30.53	+1	2.66	+8	50.83	+1	25.55	+7	43.28	+2	60.09	−7
Okt. 1	31.06	−4	2.59	+6	50.97	0	25.27	+7	43.11	+3	59.95	−5
2	31.59	−7	2.53	+3	51.11	−2	24.99	+5	42.94	+3	59.80	−1
3	32.12	−8	2.47	−1	51.24	−3	24.72	+1	42.77	+2	59.64	+3
4	32.66	−7	2.42	−5	51.38	−3	24.45	−3	42.60	+1	59.48	+6
5	33.20	−4	2.37	−8	51.52	−3	24.18	−7	42.43	−1	59.32	+8
6	33.74	0	2.33	−10	51.66	−1	23.92	−9	42.27	−2	59.15	+8
7	34.28	+5	2.29	−9	51.80	0	23.66	−10	42.10	−4	58.97	+6
8	34.82	+9	2.25	−8	51.94	+2	23.40	−9	41.94	−5	58.79	+3
9	35.36	+12	2.22	−4	52.09	+3	23.15	−7	41.77	−5	58.61	−1
10	35.89	+13	2.20	0	52.24	+4	22.90	−3	41.61	−4	58.42	−5
11	36.43	+11	2.18	+4	52.39	+4	22.65	+1	41.45	−3	58.23	−7
12	36.97	+7	2.17	+7	52.54	+3	22.41	+5	41.29	−1	58.03	−9
13	37.51	+2	2.16	+9	52.69	+2	22.17	+8	41.13	+2	57.83	−8
14	38.04	−4	2.16	+9	52.84	0	21.93	+9	40.97	+3	57.62	−6
15	38.58	−9	2.16	+7	53.00	−2	21.69	+9	40.81	+4	57.41	−3
16	39.12	−13	2.16	+4	53.16	−3	21.46	+7	40.66	+5	57.20	+1
17	39.66	−14	2.17	0	53.31	−4	21.24	+4	40.51	+4	56.99	+5
18	40.19	−13	2.19	−3	53.47	−5	21.02	0	40.36	+3	56.77	+8
19	40.73	−10	2.21	−6	53.63	−4	20.80	−3	40.21	+1	56.54	+9
20	41.26	−5	2.24	−7	53.79	−3	20.59	−6	40.06	0	56.31	+9
21	41.80	+1	2.27	−7	53.95	−1	20.38	−7	39.91	−2	56.08	+7
22	42.33	+5	2.30	−5	54.11	+1	20.18	−6	39.77	−3	55.84	+3
23	42.86	+9	2.34	−1	54.27	+3	19.98	−4	39.63	−3	55.60	−1
sec δ, tg δ	+20.35		+20.33		+6.93		+6.86		+7.35		+7.28	

1913	δ Ursae minoris $4^m.3$. AR.	☾ Gl.	Dekl.	☾ Gl.	λ Ursae minoris $6^m.8$. AR.	☾ Gl.	Dekl.	☾ Gl.	76 Draconis $6^m.0$. AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	+86° 36′	in $''$ 0.01	$19^h 5^m$	in ^{s} 0.01	+89° 0′	in $''$ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 12′	in $''$ 0.01
Sept. 16	67.50	+ 3	60.84	−8	112.14	+ 2	52.26	−9	57.99	−2	52.15	− 8
17	67.06	+ 7	60.87	−7	110.73	+18	52.40	−8	57.87	0	52.43	− 9
18	66.63	+10	60.90	−3	109.32	+31	52.54	−6	57.74	+3	52.71	− 8
19	66.19	+11	60.92	+1	107.90	+39	52.67	−2	57.61	+4	52.99	− 6
20	65.76	+11	60.94	+4	106.47	+40	52.80	+2	57.48	+5	53.26	− 3
21	65.32	+ 8	60.95	+7	105.04	+34	52.93	+5	57.35	+5	53.53	+ 1
22	64.89	+ 4	60.96	+9	103.60	+23	53.05	+7	57.22	+4	53.80	+ 4
23	64.45	0	60.97	+8	102.15	+ 8	53.17	+8	57.08	+2	54.06	+ 6
24	64.02	− 4	60.97	+6	100.70	− 6	53.28	+7	56.94	0	54.32	+ 7
25	63.58	− 6	60.96	+3	99.24	−18	53.38	+4	56.80	−1	54.58	+ 6
26	63.15	− 7	60.95	−1	97.77	−25	53.48	0	56.66	−3	54.84	+ 3
27	62.71	− 6	60.93	−5	96.30	−27	53.58	−3	56.52	−4	55.09	0
28	62.27	− 4	60.91	−8	94.83	−22	53.67	−6	56.38	−4	55.33	− 4
29	61.83	− 1	60.88	−9	93.35	−12	53.76	−8	56.24	−3	55.57	− 6
30	61.40	+ 3	60.85	−8	91.87	0	53.84	−8	56.09	−2	55.81	− 8
Okt. 1	60.96	+ 5	60.82	−6	90.38	+12	53.92	−7	55.94	0	56.04	− 7
2	60.53	+ 7	60.78	−2	88.89	+20	53.99	−4	55.79	+2	56.27	− 5
3	60.09	+ 6	60.73	+2	87.40	+23	54.06	0	55.64	+3	56.49	− 2
4	59.66	+ 4	60.68	+5	85.90	+20	54.12	+4	55.49	+3	56.71	+ 2
5	59.22	+ 1	60.62	+8	84.40	+11	54.18	+8	55.34	+3	56.93	+ 6
6	58.79	− 3	60.56	+9	82.89	− 1	54.23	+9	55.18	+2	57.14	+ 9
7	58.36	− 7	60.49	+8	81.39	−15	54.28	+9	55.03	0	57.35	+10
8	57.93	−10	60.42	+5	79.88	−27	54.32	+7	54.87	−2	57.55	+10
9	57.50	−11	60.34	+2	78.37	−35	54.36	+4	54.71	−3	57.74	+ 7
10	57.07	−10	60.26	−2	76.86	−37	54.40	0	54.55	−4	57.93	+ 4
11	56.65	− 8	60.18	−6	75.35	−32	54.43	−4	54.39	−4	58.12	0
12	56.22	− 4	60.09	−8	73.84	−20	54.45	−7	54.23	−4	58.30	− 4
13	55.80	+ 1	60.00	−9	72.33	− 5	54.47	−9	54.07	−2	58.48	− 7
14	55.38	+ 6	59.90	−7	70.82	+11	54.48	−9	53.90	0	58.65	− 9
15	54.96	+ 9	59.79	−5	69.31	+26	54.49	−7	53.74	+2	58.82	− 9
16	54.54	+11	59.68	−1	67.80	+36	54.49	−4	53.57	+3	58.98	− 7
17	54.13	+11	59.56	+3	66.29	+40	54.49	0	53.41	+5	59.13	− 4
18	53.72	+ 9	59.44	+6	64.79	+37	54.48	+4	53.25	+5	59.28	0
19	53.31	+ 6	59.31	+8	63.28	+28	54.46	+7	53.08	+4	59.43	+ 3
20	52.90	+ 2	59.18	+9	61.78	+14	54.44	+8	52.91	+3	59.57	+ 6
21	52.50	− 2	59.04	+7	60.28	− 1	54.42	+7	52.74	+1	59.71	+ 7
22	52.10	− 5	58.90	+4	58.78	−14	54.39	+5	52.57	−1	59.84	+ 6
23	51.69	− 7	58.76	0	57.29	−23	54.36	+2	52.40	−2	59.97	+ 4
sec δ, tg δ	+16.95		+16.92		+58.17		+58.16		+7.38		+7.31	

1913	43 Hev. Cephei 4ᵐ.3. AR.	☾ Gl.	Dekl.	☾ Gl.	α Ursae minoris 2ᵐ.0. AR.	☾ Gl.	Dekl.	☾ Gl.	Gr. 750 6ᵐ.8. AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in ^{s} 0.01	+85° 47′	in ″ 0.01	$1^h 29^m$	in ^{s} 0.01	+88° 50′	in ″ 0.01	$4^h 9^m$	in ^{s} 0.01	+85° 19′	in ″ 0.01
Okt. 23	53.63	+1	52.29	+ 6	16.61	+ 5	51.69	+ 6	16.98	+4	39.43	+ 4
24	53.59	−3	52.67	+ 7	16.62	− 7	52.07	+ 7	17.19	+2	39.72	+ 7
25	53.54	−6	53.05	+ 5	16.61	−18	52.46	+ 6	17.40	−1	40.01	+ 8
26	53.49	−7	53.42	+ 3	16.59	−26	52.84	+ 4	17.60	−3	40.30	+ 8
27	53.44	−8	53.79	0	16.55	−28	53.23	+ 1	17.80	−5	40.60	+ 6
28	53.38	−6	54.16	− 3	16.49	−24	53.61	− 2	18.00	−6	40.90	+ 3
29	53.32	−3	54.53	− 6	16.41	−15	54.00	− 5	18.19	−5	41.20	− 1
30	53.25	0	54.90	− 6	16.32	− 3	54.38	− 6	18.38	−3	41.51	− 4
31	53.18	+3	55.27	− 5	16.21	+10	54.76	− 6	18.57	−1	41.82	− 7
Nov. 1	53.10	+7	55.63	− 3	16.08	+22	55.14	− 4	18.75	+3	42.13	− 7
2	53.02	+8	55.99	0	15.93	+29	55.52	− 1	18.93	+5	42.44	− 6
3	52.93	+8	56.35	+ 4	15.77	+32	55.89	+ 3	19.10	+8	42.76	− 4
4	52.84	+7	56.71	+ 7	15.59	+27	56.27	+ 6	19.27	+8	43.08	0
5	52.74	+4	57.07	+ 9	15.39	+18	56.64	+ 8	19.44	+8	43.40	+ 3
6	52.64	0	57.42	+10	15.17	+ 5	57.01	+10	19.61	+6	43.72	+ 7
7	52.54	−3	57.77	+ 8	14.94	− 8	57.38	+ 9	19.77	+3	44.04	+ 9
8	52.43	−6	58.12	+ 6	14.69	−20	57.75	+ 6	19.92	−1	44.36	+ 9
9	52.32	−8	58.46	+ 2	14.42	−27	58.12	+ 3	20.07	−4	44.69	+ 7
10	52.20	−8	58.80	− 2	14.13	−29	58.49	− 1	20.22	−6	45.02	+ 4
11	52.08	−6	59.14	− 6	13.83	−25	58.85	− 5	20.36	−8	45.35	0
12	51.95	−3	59.48	− 9	13.51	−16	59.21	− 9	20.50	−7	45.68	− 4
13	51.82	0	59.81	−10	13.17	− 4	59.56	−10	20.63	−6	46.02	− 7
14	51.69	+3	60.14	−10	12.82	+ 8	59.92	−10	20.76	−3	46.35	− 9
15	51.55	+6	60.47	− 7	12.45	+19	60.27	− 8	20.89	0	46.69	−10
16	51.41	+7	60.79	− 4	12.06	+24	60.62	− 5	21.01	+2	47.02	− 8
17	51.26	+7	61.11	0	11.66	+25	60.97	− 1	21.12	+4	47.36	− 5
18	51.11	+5	61.43	+ 3	11.24	+20	61.31	+ 2	21.23	+5	47.70	− 1
19	50.95	+2	61.74	+ 6	10.80	+10	61.65	+ 5	21.34	+4	48.04	+ 3
20	50.79	−1	62.05	+ 7	10.34	− 2	61.99	+ 7	21.44	+3	48.38	+ 6
21	50.63	−5	62.35	+ 6	9.87	−14	62.33	+ 7	21.54	0	48.72	+ 8
22	50.46	−7	62.65	+ 4	9.38	−23	62.66	+ 5	21.63	−2	49.06	+ 8
23	50.29	−8	62.95	+ 1	8.88	−28	62.99	+ 2	21.72	−4	49.41	+ 7
24	50.12	−7	63.24	− 2	8.36	−26	63.32	− 1	21.80	−6	49.75	+ 4
25	49.94	−5	63.53	− 5	7.82	−19	63.64	− 4	21.88	−6	50.10	0
26	49.76	−1	63.82	− 6	7.27	− 8	63.96	− 6	21.95	−4	50.44	− 3
27	49.57	+2	64.10	− 6	6.70	+ 5	64.27	− 6	22.02	−2	50.79	− 6
28	49.38	+6	64.38	− 4	6.11	+18	64.58	− 5	22.08	+1	51.13	− 7
29	49.19	+8	64.65	− 1	5.51	+27	64.89	− 2	22.14	+4	51.48	− 7
sec δ, tg δ	+13.65		+13.62		+49.81		+49.80		+12.28		+12.24	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 0^m$	in $0.^s01$	+87° 11′	in $0.''01$	$9^h 24^m$	in $0.^s01$	+81° 42′	in $0.''01$	$16^h 54^m$	in $0.^s01$	+82° 10′	in $0.''01$
Okt. 23	$42.^s86$	+ 9	$2.''34$	− 1	$54.^s27$	+3	$19.''98$	− 4	$39.^s63$	−3	$55.''60$	−1
24	43.39	+10	2.38	+ 2	54.44	+3	19.78	0	39.49	−2	55.35	−5
25	43.92	+ 9	2.43	+ 5	54.61	+4	19.59	+ 3	39.35	−1	55.10	−8
26	44.44	+ 6	2.49	+ 8	54.78	+3	19.40	+ 6	39.21	0	54.85	−9
27	44.97	+ 2	2.55	+ 8	54.95	+2	19.22	+ 7	39.07	+2	54.59	−8
28	45.49	− 2	2.62	+ 7	55.12	0	19.04	+ 7	38.94	+3	54.33	−6
29	46.01	− 6	2.69	+ 4	55.29	−1	18.87	+ 6	38.81	+3	54.06	−2
30	46.53	− 8	2.77	+ 1	55.46	−2	18.70	+ 3	38.68	+3	53.79	+2
31	47.05	− 8	2.85	− 3	55.63	−3	18.54	− 1	38.55	+2	53.52	+5
Nov. 1	47.56	− 6	2.93	− 7	55.80	−3	18.38	− 5	38.43	0	53.25	+7
2	48.08	− 2	3.02	− 9	55.97	−2	18.23	− 8	38.31	−2	52.97	+8
3	48.59	+ 3	3.12	−10	56.14	−1	18.08	−10	38.19	−3	52.68	+7
4	49.10	+ 7	3.22	− 9	56.32	+1	17.94	−10	38.07	−5	52.39	+4
5	49.60	+11	3.33	− 6	56.50	+3	17.80	− 8	37.95	−5	52.10	+1
6	50.10	+13	3.44	− 2	56.67	+4	17.67	− 5	37.84	−5	51.80	−3
7	50.60	+12	3.55	+ 2	56.85	+4	17.54	− 1	37.73	−3	51.50	−7
8	51.09	+ 9	3.67	+ 6	57.02	+4	17.42	+ 3	37.62	−1	51.19	−9
9	51.58	+ 4	3.79	+ 8	57.20	+3	17.30	+ 7	37.51	+1	50.88	−9
10	52.07	− 2	3.92	+ 9	57.38	+1	17.19	+ 9	37.40	+2	50.58	−7
11	52.55	− 7	4.05	+ 8	57.56	−1	17.08	+ 9	37.30	+4	50.27	−4
12	53.03	−12	4.19	+ 5	57.74	−3	16.98	+ 8	37.20	+5	49.95	0
13	53.51	−14	4.33	+ 2	57.92	−4	16.89	+ 5	37.10	+4	49.63	+4
14	53.98	−14	4.48	− 2	58.10	−5	16.80	+ 1	37.01	+4	49.31	+7
15	54.45	−11	4.63	− 5	58.28	−4	16.71	− 2	36.92	+2	48.99	+9
16	54.91	− 7	4.79	− 7	58.46	−3	16.63	− 5	36.83	0	48.66	+9
17	55.37	− 2	4.95	− 7	58.64	−1	16.55	− 6	36.74	−1	48.33	+8
18	55.83	+ 3	5.12	− 6	58.82	0	16.48	− 6	36.66	−3	48.00	+5
19	56.28	+ 8	5.29	− 3	59.00	+2	16.42	− 4	36.58	−3	47.67	+1
20	56.73	+10	5.46	+ 1	59.18	+3	16.36	− 2	36.50	−3	47.33	−3
21	57.17	+ 9	5.64	+ 4	59.36	+4	16.31	+ 2	36.43	−2	46.99	−7
22	57.61	+ 7	5.83	+ 7	59.54	+3	16.26	+ 5	36.36	0	46.65	−8
23	58.04	+ 4	6.02	+ 8	59.71	+2	16.22	+ 7	36.29	+1	46.31	−8
24	58.47	− 1	6.21	+ 8	59.89	+1	16.18	+ 7	36.22	+2	45.97	−7
25	58.89	− 5	6.41	+ 6	60.07	−1	16.15	+ 6	36.16	+3	45.62	−4
26	59.30	− 8	6.61	+ 2	60.25	−2	16.13	+ 4	36.10	+3	45.27	0
27	59.71	− 8	6.82	− 2	60.43	−3	16.11	0	36.04	+2	44.92	+4
28	60.11	− 7	7.03	− 6	60.60	−3	16.10	− 4	35.99	+1	44.56	+7
29	60.51	− 4	7.25	− 8	60.78	−2	16.08	− 7	35.94	−1	44.21	+8
sec δ, tg δ	+20.36		+20.34		+6.93		+6.86		+7.35		+7.28	

1913	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$	in ^{s} 0.01	$+86° 36'$	in $''$ 0.01	$19^h 5^m$	in ^{s} 0.01	$+89° 0'$	in $''$ 0.01	$20^h 48^m$	in ^{s} 0.01	$+82° 12'$	in $''$ 0.01
Okt. 23	^{s}51.69	− 7	$''$58.76	0	^{s}57.29	−23	$''$54.36	+2	^{s}52.40	−2	$''$59.97	+ 4
24	51.29	− 7	58.61	−4	55.80	−26	54.32	−2	52.23	−3	60.10	+ 1
25	50.90	− 5	58.45	−7	54.32	−24	54.27	−5	52.06	−4	60.22	− 2
26	50.50	− 2	58.29	−9	52.84	−15	54.22	−8	51.88	−3	60.33	− 5
27	50.11	+ 1	58.13	−9	51.36	− 4	54.17	−9	51.71	−2	60.44	− 7
28	49.72	+ 4	57.96	−7	49.89	+ 8	54.11	−8	51.54	0	60.54	− 8
29	49.34	+ 6	57.79	−4	48.42	+18	54.04	−5	51.36	+1	60.64	− 6
30	48.96	+ 7	57.61	0	46.96	+23	53.97	−1	51.19	+2	60.73	− 3
31	48.59	+ 5	57.43	+4	45.51	+22	53.89	+3	51.01	+3	60.81	0
Nov. 1	48.21	+ 3	57.24	+7	44.06	+15	53.81	+6	50.84	+3	60.89	+ 4
2	47.84	− 1	57.05	+9	42.62	+ 4	53.73	+9	50.66	+2	60.96	+ 8
3	47.48	− 5	56.86	+8	41.19	−10	53.64	+9	50.49	+1	61.03	+10
4	47.12	− 9	56.66	+6	39.77	−23	53.54	+8	50.31	−1	61.10	+10
5	46.76	−11	56.46	+3	38.35	−33	53.44	+6	50.14	−3	61.16	+ 9
6	46.41	−11	56.25	−1	36.94	−37	53.33	+2	49.97	−4	61.21	+ 6
7	46.06	− 9	56.04	−5	35.54	−35	53.22	−2	49.79	−4	61.26	+ 2
8	45.72	− 6	55.82	−7	34.15	−26	53.11	−6	49.62	−4	61.30	− 3
9	45.38	− 1	55.60	−9	32.77	−12	52.99	−8	49.44	−3	61.33	− 6
10	45.04	+ 4	55.37	−8	31.40	+ 4	52.86	−9	49.26	−2	61.36	− 8
11	44.71	+ 8	55.14	−6	30.04	+20	52.73	−8	49.09	+1	61.38	− 9
12	44.38	+11	54.91	−3	28.69	+32	52.59	−5	48.91	+3	61.40	− 8
13	44.06	+11	54.67	+1	27.35	+39	52.45	−1	48.74	+4	61.41	− 5
14	43.74	+10	54.43	+5	26.03	+39	52.30	+2	48.56	+5	61.42	− 2
15	43.43	+ 7	54.18	+8	24.71	+32	52.15	+6	48.39	+5	61.42	+ 2
16	43.12	+ 3	53.93	+9	23.40	+20	52.00	+8	48.22	+4	61.41	+ 5
17	42.82	− 1	53.68	+8	22.11	+ 5	51.84	+8	48.04	+2	61.40	+ 6
18	42.52	− 4	53.42	+5	20.83	− 9	51.67	+6	47.87	0	61.38	+ 7
19	42.23	− 7	53.16	+2	19.57	−20	51.50	+3	47.70	−2	61.36	+ 5
20	41.94	− 7	52.89	−2	18.32	−25	51.32	0	47.53	−3	61.33	+ 2
21	41.66	− 6	52.62	−6	17.08	−25	51.14	−4	47.36	−4	61.29	− 1
22	41.38	− 3	52.35	−8	15.85	−19	50.96	−7	47.19	−4	61.25	− 4
23	41.11	0	52.08	−9	14.64	− 8	50.77	−8	47.02	−3	61.20	− 7
24	40.85	+ 3	51.80	−8	13.45	+ 4	50.58	−8	46.85	−1	61.15	− 8
25	40.59	+ 6	51.52	−5	12.27	+15	50.38	−6	46.69	0	61.09	− 7
26	40.34	+ 7	51.23	−1	11.11	+22	50.18	−3	46.53	+2	61.03	− 5
27	40.09	+ 6	50.94	+3	9.96	+23	49.97	+1	46.36	+3	60.96	− 1
28	39.85	+ 4	50.65	+6	8.83	+19	49.76	+5	46.20	+3	60.88	+ 3
29	39.61	0	50.35	+8	7.71	+ 9	49.54	+8	46.03	+3	60.80	+ 6
sec δ, tg δ	+16.94		+16.91		+58.15		+58.14		+7.39		+7.32	

1913	43 Hev. Cephei $4^m.3$.				α Ursae minoris $2^m.0$.				Gr. 750 $6^m.8$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 56^m$	in $0^s.01$	+85° 48′	in $0''.01$	$1^h 28^m$	in $0^s.01$	+88° 51′	in $0''.01$	$4^h 9^m$	in $0^s.01$	+85° 19′	in $0''.01$
Nov. 29	$49^s.19$	+8	$4''.65$	− 1	$65^s.51$	+27	$4''.89$	− 2	$22^s.14$	+4	$51''.48$	− 7
30	48.99	+8	4.92	+ 2	64.89	+32	5.20	+ 1	22.20	+7	51.82	− 5
Dez. 1	48.79	+8	5.18	+ 6	64.26	+30	5.50	+ 5	22.25	+8	52.16	− 2
2	48.58	+5	5.44	+ 9	63.62	+22	5.80	+ 8	22.30	+8	52.51	+ 2
3	48.37	+2	5.69	+10	62.96	+11	6.09	+ 9	22.34	+7	52.85	+ 5
4	48.16	−2	5.94	+ 9	62.28	− 3	6.38	+ 9	22.37	+4	53.20	+ 8
5	47.94	−5	6.18	+ 7	61.59	−15	6.66	+ 8	22.40	+1	53.54	+ 9
6	47.72	−7	6.42	+ 3	60.88	−25	6.94	+ 4	22.42	−3	53.88	+ 8
7	47.50	−8	6.65	− 1	60.16	−29	7.21	0	22.44	−5	54.22	+ 6
8	47.28	−7	6.88	− 5	59.43	−27	7.48	− 4	22.45	−7	54.56	+ 2
9	47.05	−4	7.10	− 8	58.68	−20	7.75	− 7	22.46	−7	54.90	− 2
10	46.82	−1	7.32	−10	57.92	− 9	8.01	−10	22.46	−6	55.24	− 6
11	46.59	+2	7.53	−10	57.14	+ 4	8.26	−10	22.46	−4	55.58	− 9
12	46.35	+5	7.74	− 8	56.35	+15	8.51	− 9	22.46	−1	55.92	−10
13	46.11	+7	7.94	− 5	55.55	+23	8.76	− 6	22.45	+1	56.25	− 9
14	45.87	+7	8.14	− 2	54.73	+25	9.00	− 3	22.43	+4	56.58	− 7
15	45.62	+6	8.33	+ 2	53.91	+22	9.23	+ 1	22.41	+5	56.91	− 3
16	45.37	+3	8.51	+ 5	53.07	+14	9.46	+ 4	22.38	+5	57.24	+ 1
17	45.12	0	8.69	+ 6	52.22	+ 3	9.69	+ 6	22.35	+3	57.57	+ 5
18	44.87	−3	8.86	+ 6	51.36	−10	9.91	+ 7	22.31	+1	57.90	+ 7
19	44.61	−6	9.03	+ 5	50.48	−20	10.12	+ 6	22.27	−1	58.22	+ 8
20	44.36	−8	9.19	+ 2	49.59	−27	10.33	+ 3	22.23	−4	58.55	+ 7
21	44.10	−8	9.34	− 1	48.70	−28	10.53	0	22.18	−5	58.87	+ 5
22	43.84	−6	9.49	− 4	47.79	−23	10.73	− 3	22.12	−6	59.19	+ 2
23	43.57	−3	9.63	− 6	46.88	−13	10.92	− 5	22.06	−5	59.50	− 2
24	43.30	+1	9.77	− 6	45.95	0	11.11	− 6	22.00	−3	59.81	− 5
25	43.04	+4	9.90	− 5	45.01	+13	11.29	− 6	21.93	0	60.12	− 7
26	42.77	+7	10.02	− 2	44.06	+24	11.46	− 4	21.86	+3	60.43	− 7
27	42.50	+8	10.14	+ 1	43.11	+31	11.63	0	21.78	+6	60.74	− 6
28	42.23	+8	10.25	+ 5	42.15	+32	11.79	+ 3	21.69	+8	61.04	− 3
29	41.95	+6	10.36	+ 8	41.18	+26	11.95	+ 7	21.60	+8	61.34	0
30	41.68	+3	10.46	+10	40.20	+16	12.10	+ 9	21.50	+8	61.64	+ 4
31	41.40	0	10.55	+10	39.21	+ 3	12.24	+10	21.40	+5	61.93	+ 7
32	41.12	−4	10.64	+ 8	38.21	−10	12.38	+ 9	21.30	+2	62.22	+ 9
sec δ, tg δ	+13.66		+13.63		+49.94		+49.93		+12.29		+12.25	

1913	51 Hev. Cephei $5^m.2$.				1 Hev. Draconis $4^m.3$.				ε Ursae minoris $4^m.2$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 1^m$	in 0.01^s	$+87°\ 11'$	in $0.01''$	$9^h\ 25^m$	in 0.01^s	$+81°\ 42'$	in $0.01''$	$16^h\ 54^m$	in 0.01^s	$+82°\ 10'$	in $0.01''$
Nov. 29	0.51^s	−4	$7.25''$	−8	0.78^s	−2	$16.08''$	−7	35.94^s	−1	$44.21''$	+8
30	0.90	+1	7.47	−10	0.96	−1	16.08	−10	35.89	−3	43.86	+7
Dez. 1	1.29	+6	7.69	−9	1.14	0	16.08	−10	35.84	−4	43.51	+5
2	1.67	+10	7.92	−7	1.32	+2	16.10	−9	35.80	−5	43.16	+2
3	2.04	+12	8.15	−3	1.49	+4	16.12	−6	35.76	−5	42.81	−2
4	2.41	+13	8.38	+1	1.66	+4	16.14	−3	35.72	−4	42.45	−5
5	2.77	+11	8.62	+5	1.84	+4	16.16	+2	35.69	−2	42.09	−8
6	3.12	+6	8.86	+8	2.01	+3	16.19	+6	35.66	0	41.73	−9
7	3.47	+1	9.11	+9	2.19	+2	16.23	+8	{35.64 35.62	+2 +3	41.37 41.01	−8 −5
8	3.81	−5	9.36	+8	2.36	0	16.27	+9	35.59	+4	40.65	−2
9	4.14	−10	9.61	+1	2.53	−2	16.32	+8	35.57	+5	40.28	+2
10	4.46	−13	9.87	+3	2.70	−4	16.37	+6	35.55	+4	39.91	+6
11	4.78	−14	10.13	0	2.87	−5	16.43	+2	35.54	+3	39.55	+9
12	5.09	−13	10.39	−4	3.04	−4	16.50	−1	35.53	+1	39.18	+9
13	5.40	−9	10.66	−6	3.21	−4	16.57	−4	35.52	−1	38.82	+8
14	5.70	−4	10.93	−7	3.37	−2	16.65	−6	35.52	−2	38.46	+6
15	5.99	+1	11.20	−6	3.53	0	16.73	−6	35.52	−3	38.10	+2
16	6.27	+6	11.47	−4	3.69	+1	16.82	−5	35.52	−3	37.74	−2
17	6.55	+9	11.75	−1	3.85	+3	16.92	−3	35.53	−2	37.38	−5
18	6.82	+10	12.03	+3	4.01	+3	17.02	0	35.54	−1	37.02	−8
19	7.08	+8	12.31	+6	4.17	+3	17.13	+4	35.55	+1	36.66	−9
20	7.33	+5	12.60	+8	4.33	+3	17.24	+7	35.57	+2	36.30	−7
21	7.57	+1	12.89	+8	4.49	+1	17.36	+8	35.59	+3	35.94	−5
22	7.80	−3	13.18	+7	4.65	0	17.49	+7	35.61	+3	35.58	−1
23	8.03	−7	13.48	+4	4.80	−2	17.62	+5	35.63	+3	35.22	+2
24	8.25	−8	13.77	0	4.95	−3	17.76	+2	35.66	+1	34.87	+6
25	8.46	−8	14.07	−4	5.10	−3	17.90	−2	35.69	0	34.52	+8
26	8.66	−5	14.37	−7	5.25	−3	18.05	−6	35.73	−2	34.17	+8
27	8.85	−1	14.67	−9	5.39	−2	18.20	−9	35.77	−4	33.82	+6
28	9.03	+4	14.97	−10	5.53	0	18.35	−10	35.81	−5	33.47	+3
29	9.21	+8	15.28	−8	5.67	+1	18.51	−10	35.85	−5	33.12	0
30	9.38	+12	15.59	−5	5.81	+3	18.67	−8	35.90	−5	32.78	−4
31	9.53	+13	15.90	−1	5.95	+4	18.84	−4	35.95	−3	32.44	−7
32	9.68	+12	16.21	+3	6.09	+4	19.01	0	36.00	−1	32.10	−9
sec δ, tg δ	+20.37		+20.35		+6.93		+6.86		+7.35		+7.28	

1913	δ Ursae minoris $4^m.3$.				λ Ursae minoris $6^m.8$.				76 Draconis $6^m.0$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 59^m$ s	in s 0.01	$+86° 36'$ ″	in ″ 0.01	$19^h 4^m$ s	in s 0.01	$+89° 0'$ ″	in ″ 0.01	$20^h 48^m$ s	in s 0.01	$+82° 12'$ ″	in ″ 0.01
Nov. 29	39.61	0	50.35	+8	67.71	+ 9	49.54	+ 8	46.03	+3	60.80	+ 6
30	39.38	− 4	50.05	+9	66.61	− 4	49.32	+ 9	45.87	+1	60.71	+ 9
Dez. 1	39.16	− 8	49.75	+7	65.53	−18	49.09	+ 9	45.71	0	60.62	+10
2	38.94	−10	49.45	+5	64.47	−30	48.86	+ 7	45.55	−2	60.52	+ 9
3	38.73	−11	49.14	+1	63.42	−37	48.63	+ 4	45.39	−4	60.41	+ 7
4	38.53	−10	48.83	−3	62.39	−37	48.39	− 1	45.23	−4	60.30	+ 3
5	38.33	− 7	48.52	−7	61.38	−31	48.15	− 4	45.08	−4	60.18	− 1
6	38.14	− 3	48.21	−9	60.39	−19	47.90	− 7	44.92	−3	60.06	− 5
7	37.96	+ 2	47.90	−9	59.42	− 3	47.65	− 9	44.77	−2	59.93	− 8
8	37.78	+ 6	47.58	−7	58.47	+14	47.40	− 8	44.62	0	59.79	− 9
9	37.61	+10	47.26	−4	57.54	+28	47.15	− 6	44.47	+2	59.65	− 8
10	37.44	+11	46.94	0	56.63	+37	46.89	− 3	44.32	+4	59.51	− 6
11	37.28	+11	46.62	+4	55.73	+39	46.62	+ 1	44.17	+5	59.36	− 3
12	37.13	+ 9	46.29	+7	54.86	+35	46.35	+ 5	44.02	+5	59.20	0
13	36.99	+ 5	45.96	+9	54.01	+25	46.08	+ 7	43.88	+4	59.04	+ 4
14	36.85	+ 1	45.63	+9	53.18	+11	45.81	+ 8	43.74	+3	58.87	+ 6
15	36.72	− 3	45.30	+7	52.37	− 3	45.53	+ 7	43.60	+1	58.70	+ 7
16	36.60	− 6	44.97	+4	51.58	−15	45.25	+ 5	43.46	−1	58.52	+ 6
17	36.48	− 7	44.64	0	50.82	−24	44.97	+ 1	43.32	−2	58.34	+ 3
18	36.37	− 6	44.30	−4	50.08	−25	44.68	− 3	43.18	−3	58.16	0
19	36.27	− 4	43.97	−7	49.36	−21	44.39	− 6	43.05	−4	57.97	− 3
20	36.18	− 1	43.63	−9	48.66	−12	44.10	− 8	42.92	−3	57.77	− 6
21	{ 36.09 36.01	+ 2 + 5	43.29 42.95	−8 −6	47.98	0	43.81	− 9	42.79	−2	57.57	− 8
22	35.94	+ 7	42.61	−3	47.33	+11	43.51	− 7	42.66	0	57.36	− 8
23	35.87	+ 7	42.27	+1	46.70	+20	43.21	− 4	42.54	+2	57.15	− 6
24	35.81	+ 5	41.93	+5	46.10	+24	42.91	0	42.42	+3	56.93	− 3
25	35.76	+ 2	41.58	+8	45.52	+22	42.60	+ 3	42.30	+3	56.71	+ 1
26	35.72	− 2	41.24	+9	44.96	+14	42.30	+ 7	42.18	+3	56.49	+ 5
27	35.68	− 6	40.90	+8	44.43	+ 1	41.99	+ 9	42.06	+2	56.26	+ 8
28	35.65	−10	40.56	+6	43.92	−13	41.68	+10	41.95	0	56.03	+10
29	35.63	−11	40.22	+2	43.43	−26	41.37	+ 8	41.84	−1	55.79	+10
30	35.61	−11	39.88	−2	42.97	−35	41.06	+ 5	41.73	−3	55.55	+ 8
31	35.60	− 9	39.54	−5	42.53	−38	40.74	+ 1	41.62	−4	55.30	+ 5
32	35.60	− 5	39.20	−8	42.12	−34	40.42	− 3	41.52	−4	55.05	+ 1
sec δ, tg δ	+16.92		+16.90		+58.02		+58.02		+7.38		+7.31	

1913	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in ^{s} 0.01	$-85° 12'$	in $''$ 0.01	$9^h 9^m$	in ^{s} 0.01	$-85° 18'$	in $''$ 0.01	$12^h 45^m$	in ^{s} 0.01	$-84° 38'$	in $''$ 0.01
Jan. 0	$28^s.69$	+6	$50''.36$	+ 1	$39^s.58$	−3	$39''.78$	+ 7	$36^s.84$	−5	$44''.78$	+ 2
1	28.42	+5	50.37	− 3	39.70	+1	40.12	+ 6	37.10	−3	44.87	+ 4
2	28.15	+3	50.38	− 4	39.82	+3	40.46	+ 4	37.36	0	44.97	+ 5
3	27.88	0	50.39	− 6	39.94	+5	40.80	+ 1	37.62	+3	45.08	+ 5
4	27.61	−3	50.40	− 6	40.05	+6	41.14	− 3	37.87	+5	45.19	+ 3
5	27.34	−6	50.39	− 4	40.15	+5	41.49	− 6	38.13	+6	45.31	0
6	27.07	−7	50.38	− 1	40.25	+3	41.84	− 9	38.38	+6	45.44	− 3
7	26.80	−7	50.36	+ 2	40.35	0	42.19	−10	38.63	+5	45.57	− 6
8	26.52	−6	50.34	+ 5	40.44	−3	42.54	− 8	38.88	+3	45.70	− 8
9	26.25	−3	50.31	+ 7	40.52	−5	42.90	− 6	39.13	0	45.84	− 8
10	25.98	0	50.27	+ 8	40.60	−6	43.26	− 2	39.38	−3	45.99	− 7
11	25.70	+3	50.23	+ 7	40.68	−6	43.62	+ 2	39.63	−5	46.14	− 4
12	25.43	+6	50.18	+ 4	40.76	−5	43.98	+ 6	39.87	−6	46.30	− 1
13	25.15	+7	50.12	+ 1	40.83	−3	44.34	+ 9	40.12	−6	46.47	+ 3
14	24.88	+8	50.06	− 3	40.89	+1	44.71	+10	40.36	−5	46.64	+ 7
15	24.61	+6	50.00	− 7	40.95	+4	45.08	+ 9	40.61	−3	46.82	+10
16	24.34	+4	49.93	−10	41.00	+7	45.45	+ 7	40.85	0	47.00	+11
17	24.07	+1	49.85	−11	41.05	+8	45.82	+ 4	41.09	+3	47.19	+10
18	23.80	−3	49.76	−10	41.09	+8	46.19	0	41.33	+5	47.39	+ 7
19	23.53	−5	49.67	− 7	41.13	+7	46.57	− 4	41.57	+6	47.59	+ 4
20	23.26	−6	49.57	− 4	41.17	+4	46.95	− 6	41.81	+6	47.79	0
21	22.99	−6	49.47	0	41.20	+1	47.33	− 7	42.04	+5	48.00	− 4
22	22.72	−5	49.36	+ 4	41.23	−3	47.71	− 6	42.27	+3	48.22	− 7
23	22.45	−2	49.25	+ 7	41.25	−5	48.09	− 4	42.50	0	48.44	− 8
24	22.18	+1	49.13	+ 8	41.26	−7	48.47	− 1	42.73	−3	48.66	− 8
25	21.91	+3	49.00	+ 8	41.27	−7	48.85	+ 2	42.96	−5	48.89	− 6
26	21.65	+5	48.87	+ 6	41.28	−6	49.24	+ 5	43.18	−6	49.13	− 3
27	21.38	+6	48.73	+ 3	41.28	−4	49.62	+ 7	43.40	−5	49.37	+ 1
28	21.12	+6	48.59	0	41.27	−1	50.01	+ 6	43.62	−3	49.61	+ 3
29	20.85	+4	48.44	− 3	41.26	+2	50.39	+ 5	43.84	−1	49.86	+ 5
30	20.59	+1	48.28	− 5	41.25	+4	50.78	+ 2	44.06	+1	50.12	+ 5
31	20.33	−2	48.12	− 6	41.23	+5	51.16	− 2	44.27	+4	50.38	+ 4
Febr. 1	20.07	−5	47.95	− 4	41.21	+5	51.55	− 5	44.48	+6	50.64	+ 2
2	19.81	−7	47.78	− 2	41.18	+4	51.93	− 8	44.69	+7	50.91	− 2
3	19.55	−7	47.60	+ 1	41.15	+1	52.32	−10	44.90	+6	51.18	− 5
4	19.30	−7	47.42	+ 4	41.11	−2	52.70	− 9	45.10	+4	51.46	− 7
5	19.05	−5	47.23	+ 7	41.07	−4	53.09	− 7	45.30	+2	51.74	− 8
6	18.80	−2	47.03	+ 8	41.02	−6	53.47	− 4	45.50	−1	52.03	− 8
sec δ, tg δ	+11.99		−11.96		+12.24		−12.20		+10.72		−10.67	

1913	Octantis 20 G. 7ᵐ.				Octantis 26 G. 6ᵐ–7ᵐ.				χ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 43^m$	in 0.01^s	$-87° 47'$	in $0.01''$	$16^h 27^m$	in 0.01^s	$-86° 12'$	in $0.01''$	$18^h 3^m$	in 0.01^s	$-87° 39'$	in $0.01''$
Jan. 0	56.14	−12	37.54	− 1	52.48	− 6	23.76	− 4	15.18	− 6	58.60	−6
1	56.74	−10	37.44	+ 2	52.75	− 6	23.53	0	15.43	− 8	58.28	−2
2	57.34	− 5	37.35	+ 5	53.03	− 5	23.31	+ 3	15.69	− 8	57.97	+1
3	57.94	+ 2	37.26	+ 6	53.31	− 2	23.09	+ 6	15.96	− 6	57.66	+5
4	58.55	+ 8	37.18	+ 6	53.60	+ 2	22.88	+ 8	16.23	− 2	57.35	+8
5	59.16	+13	37.11	+ 5	53.89	+ 5	22.67	+ 7	16.52	+ 3	57.04	+9
6	59.78	+16	37.04	+ 2	54.19	+ 8	22.47	+ 5	16.81	+ 8	56.74	+8
7	60.40	+16	36.98	− 2	54.49	+ 9	22.27	+ 2	17.11	+12	56.44	+6
8	61.02	+13	36.93	− 5	54.80	+ 9	22.07	− 1	17.42	+14	56.14	+2
9	61.65	+ 7	36.88	− 7	55.11	+ 7	21.88	− 5	17.74	+13	55.84	−2
10	62.28	0	36.84	− 8	55.43	+ 3	21.69	− 7	18.07	+ 9	55.54	−6
11	62.91	− 7	36.81	− 7	55.75	− 1	21.51	− 8	18.41	+ 3	55.25	−8
12	63.54	−13	36.78	− 5	56.07	− 5	21.33	− 7	18.76	− 2	54.96	−9
13	64.18	−16	36.76	− 1	56.40	− 8	21.16	− 5	19.12	−10	54.67	−8
14	64.82	−17	36.75	+ 3	56.73	−10	20.99	− 1	19.49	−15	54.39	−5
15	65.46	−14	36.74	+ 7	57.06	−10	20.82	+ 3	19.87	−17	54.11	−1
16	66.10	−10	36.73	+ 9	57.40	− 9	20.66	+ 6	20.26	−17	53.83	+3
17	66.74	− 2	36.73	+10	57.74	− 6	20.51	+ 9	20.66	−14	53.55	+6
18	67.39	+ 4	36.74	+10	58.09	− 2	20.36	+10	21.06	− 9	53.28	+8
19	68.04	+10	36.75	+ 7	58.44	+ 2	20.21	+ 8	21.47	− 2	53.01	+9
20	68.69	+12	36.77	+ 3	58.79	+ 5	20.07	+ 6	21.89	+ 4	52.74	+7
21	69.34	+12	36.80	− 1	59.14	+ 7	19.93	+ 2	22.32	+ 9	52.48	+4
22	69.99	+10	36.83	− 5	59.50	+ 7	19.80	− 2	22.75	+12	52.22	+1
23	70.64	+ 5	36.86	− 8	59.86	+ 6	19.67	− 6	23.19	+12	51.96	−3
24	71.30	− 1	36.90	− 9	60.22	+ 3	19.55	− 8	23.64	+10	51.70	−6
25	71.95	− 6	36.95	− 8	60.59	0	19.43	− 9	24.10	+ 6	51.45	−8
26	72.61	−11	37.00	− 6	60.96	− 3	19.32	− 8	24.56	0	51.20	−9
27	73.26	−12	37.06	− 3	61.33	− 5	19.21	− 6	25.03	− 4	50.96	−7
28	73.92	−11	37.13	+ 1	61.70	− 6	19.11	− 2	25.51	− 8	50.72	−4
29	74.57	− 7	37.20	+ 4	62.07	− 5	19.01	+ 2	26.00	− 9	50.49	0
30	75.23	− 1	37.28	+ 6	62.45	− 3	18.92	+ 5	26.49	− 7	50.26	+4
31	75.88	+ 6	37.36	+ 6	62.83	0	18.84	+ 7	26.99	− 4	50.03	+7
Febr. 1	76.53	+12	37.45	+ 5	63.21	+ 4	18.76	+ 8	27.50	+ 2	49.80	+9
2	77.18	+15	37.54	+ 3	63.59	+ 7	18.69	+ 6	28.01	+ 7	49.58	+9
3	77.83	+16	37.64	0	63.98	+ 9	18.62	+ 4	28.53	+12	49.37	+7
4	78.48	+15	37.75	− 4	64.37	+ 9	18.56	0	29.05	+14	49.16	+3
5	79.13	+10	37.86	− 7	64.76	+ 8	18.50	− 4	29.58	+14	48.95	0
6	79.78	+ 3	37.98	− 8	65.15	+ 5	18.45	− 7	30.12	+11	48.75	−4
sec δ, tg δ	+25.98		−25.96		+15.11		−15.08		+24.54		−24.53	

1913	σ Octantis 6^m.				β Octantis $4^m - 5^m$.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 19^m$	in ^{s} 0.01	$-89° 13'$	in $''$ 0.01	$22^h 37^m$	in ^{s} 0.01	$-81° 50'$	in $''$ 0.01	$23^h 15^m$	in ^{s} 0.01	$-87° 57'$	in $''$ 0.01
Jan. 0	^{s}50.72	+ 7	$''$69.84	−8	^{s}12.66	+3	$''$38.93	− 4	^{s}30.20	+14	$''$58.75	− 3
1	50.86	−10	69.49	−7	12.55	+2	38.71	− 6	29.68	+ 7	58.55	− 5
2	51.02	−21	69.14	−4	12.45	0	38.48	− 6	29.16	0	58.35	− 6
3	51.21	−27	68.79	0	12.35	−2	38.24	− 4	28.65	− 7	58.14	− 5
4	51.44	−26	68.44	+4	12.25	−3	38.00	− 1	28.14	−12	57.93	− 2
5	51.70	−17	68.09	+7	12.15	−4	37.75	+ 2	27.64	−15	57.71	+ 1
6	51.99	− 4	67.74	+9	12.05	−3	37.50	+ 6	27.14	−15	57.49	+ 4
7	52.31	+12	67.39	+9	11.96	−2	37.25	+ 8	26.65	−12	57.26	+ 7
8	{52.66 53.04	+ 27 + 37	67.05 66.70	+ 7 + 4	11.87	−1	36.99	+ 9	26.16	− 6	57.02	+ 9
9	53.46	+40	66.35	0	11.78	+1	36.73	+ 8	25.68	+ 1	56.78	+ 9
10	53.91	+35	66.00	−4	11.69	+3	36.46	+ 6	25.21	+ 8	56.53	+ 7
11	54.38	+22	65.66	−7	11.60	+4	36.19	+ 2	24.74	+14	56.28	+ 4
12	54.88	+ 4	65.31	−9	11.52	+4	35.91	− 2	24.28	+16	56.03	0
13	55.42	−16	64.97	−9	11.44	+3	35.63	− 6	23.83	+15	55.77	− 5
14	55.99	−35	64.62	−7	11.36	+2	35.34	− 9	23.38	+11	55.51	− 8
15	56.58	−48	64.28	−4	11.28	0	35.05	−10	22.94	+ 4	55.24	−10
16	57.20	−53	63.93	0	11.20	−2	34.76	−10	22.51	− 3	54.96	−11
17	57.85	−49	63.59	+4	11.13	−3	34.46	− 8	22.09	−10	54.68	− 9
18	58.53	−37	63.25	+6	11.06	−4	34.16	− 5	21.67	−15	54.39	− 6
19	59.24	−19	62.91	+8	10.99	−4	33.86	− 1	21.27	−17	54.10	− 2
20	59.98	+ 2	62.57	+8	10.92	−4	33.55	+ 3	20.87	−16	53.81	+ 1
21	60.74	+20	62.24	+6	10.85	−2	33.24	+ 6	20.48	−11	53.51	+ 4
22	61.53	+35	61.90	+3	10.79	−1	32.92	+ 7	20.10	− 4	53.21	+ 7
23	62.36	+41	61.57	−1	10.73	+1	32.60	+ 7	19.72	+ 3	52.90	+ 7
24	63.21	+39	61.24	−5	10.67	+3	32.28	+ 5	19.35	+10	52.59	+ 6
25	64.09	+29	60.91	−7	10.61	+4	31.95	+ 3	18.99	+15	52.28	+ 4
26	65.00	+14	60.58	−8	10.56	+4	31.62	− 1	18.64	+17	51.96	+ 1
27	65.94	− 2	60.25	−7	10.51	+4	31.29	− 3	18.30	+15	51.64	− 2
28	66.90	−17	59.92	−5	10.46	+2	30.96	− 5	17.97	+11	51.32	− 4
29	67.89	−26	59.60	−1	10.41	0	30.62	− 6	17.65	+ 4	50.99	− 6
30	68.91	−27	59.28	+2	10.36	−1	30.28	− 5	17.33	− 4	50.66	− 5
31	69.95	−22	58.97	+6	10.32	−3	29.94	− 2	17.02	−10	50.33	− 4
Febr. 1	71.02	− 9	58.66	+9	10.28	−4	29.59	+ 1	16.72	−14	49.99	0
2	72.11	+ 6	58.35	+9	10.24	−4	29.24	+ 4	16.43	−16	49.65	+ 3
3	73.23	+23	58.04	+8	10.20	−3	28.89	+ 7	16.15	−14	49.31	+ 6
4	74.37	+35	57.73	+6	10.17	−1	28.54	+ 9	15.88	− 8	48.96	+ 8
5	75.53	+41	57.43	+2	10.14	0	28.18	+ 9	15.62	− 1	48.61	+ 9
6	76.72	+39	57.13	−2	10.11	+2	27.82	+ 7	15.37	+ 6	48.26	+ 8
sec δ, tg δ	+74.82		−74.82		+7.05		−6.98		+28.17		−28.15	

1913	Octantis 4 G. 6m.				ζ Octantis 6m–5m.				ι Octantis 6m–5m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in s 0.01	−85° 12′	in ″ 0.01	$9^h 9^m$	in s 0.01	−85° 18′	in ″ 0.01	$12^h 45^m$	in s 0.01	−84° 38′	in ″ 0.01
Febr. 6	18.80	−2	47.03	+ 8	41.02	−6	53.47	− 4	45.50	−1	52.03	− 8
7	18.55	+2	46.83	+ 8	40.97	−7	53.86	+ 1	45.70	−4	52.32	− 6
8	18.30	+5	46.63	+ 6	40.91	−6	54.24	+ 5	45.89	−6	52.61	− 2
9	18.06	+7	46.42	+ 2	40.85	−3	54.62	+ 8	46.08	−6	52.91	+ 2
10	17.82	+8	46.20	− 2	40.78	0	55.00	+10	46.27	−6	53.21	+ 6
11	17.58	+7	45.98	− 6	40.71	+3	55.38	+10	46.45	−4	53.52	+ 9
12	17.34	+5	45.75	− 9	40.64	+6	55.76	+ 8	46.63	−1	53.83	+10
13	17.10	+2	45.52	−10	40.56	+8	56.14	+ 5	46.81	+2	54.14	+10
14	16.86	−1	45.29	−10	40.48	+8	56.52	+ 1	46.99	+4	54.46	+ 9
15	16.63	−4	45.05	− 8	40.39	+7	56.90	− 3	47.16	+6	54.78	+ 5
16	16.40	−6	44.81	− 5	40.30	+5	57.28	− 5	47.33	+6	55.11	+ 1
17	16.17	−6	44.56	− 1	40.20	+2	57.65	− 7	47.50	+5	55.44	− 3
18	15.94	−5	44.30	+ 3	40.10	−1	58.02	− 7	47.66	+3	55.77	− 6
19	15.72	−3	44.04	+ 6	39.99	−4	58.39	− 5	47.82	0	56.11	− 7
20	15.50	0	43.78	+ 8	39.88	−6	58.76	− 2	47.98	−2	56.45	− 8
21	15.28	+2	43.52	+ 8	39.77	−7	59.13	+ 1	48.14	−4	56.79	− 6
22	15.06	+4	43.25	+ 7	39.65	−6	59.50	+ 4	48.29	−6	57.13	− 4
23	14.85	+6	42.98	+ 4	39.53	−4	59.87	+ 6	48.44	−6	57.47	− 1
24	14.64	+6	42.70	+ 1	39.40	−2	60.23	+ 7	48.59	−4	57.82	+ 2
25	14.43	+4	42.42	− 2	39.27	+1	60.59	+ 6	48.73	−2	58.17	+ 5
26	14.23	+2	42.13	− 5	39.13	+4	60.95	+ 3	48.87	0	58.52	+ 6
27	14.03	−1	41.84	− 6	38.99	+5	61.31	0	49.01	+3	58.88	+ 5
28	13.83	−4	41.55	− 5	38.85	+6	61.67	− 4	49.14	+5	59.24	+ 3
März 1	13.63	−6	41.25	− 3	38.71	+4	62.02	− 7	49.27	+6	59.60	0
2	13.44	−8	40.95	0	38.56	+2	62.37	− 9	49.40	+6	59.96	− 4
3	13.25	−7	40.64	+ 3	38.41	−1	62.72	−10	49.52	+5	60.32	− 7
4	13.06	−6	40.33	+ 6	38.25	−3	63.06	− 8	49.64	+3	60.69	− 8
5	12.87	−3	40.02	+ 8	38.09	−6	63.40	− 5	49.76	0	61.06	− 8
6	12.69	0	39.70	+ 8	37.92	−7	63.74	− 1	49.87	−3	61.43	− 7
7	12.51	+4	39.38	+ 7	37.75	−6	64.07	+ 3	49.98	−5	61.80	− 4
8	12.34	+6	39.06	+ 4	37.58	−5	64.40	+ 6	50.09	−6	62.17	0
9	12.17	+7	38.74	0	37.41	−2	64.73	+ 9	50.19	−6	62.55	+ 4
10	12.00	+7	38.41	− 4	37.23	+1	65.06	+10	50.29	−5	62.92	+ 8
11	11.84	+6	38.08	− 8	37.05	+4	65.38	+ 9	50.39	−3	63.30	+10
12	11.68	+3	37.74	−10	36.86	+7	65.70	+ 6	50.48	0	63.68	+11
13	11.52	0	37.40	−11	36.67	+8	66.02	+ 3	50.57	+3	64.06	+ 9
14	11.37	−3	37.06	− 9	36.48	+8	66.33	− 1	50.65	+5	64.44	+ 7
15	11.22	−5	36.72	− 6	36.28	+6	66.64	− 5	50.73	+6	64.82	+ 3
sec δ, tg δ	+11.98		−11.96		+12.25		−12.21		+10.72		−10.68	

1913	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				γ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in 0.01^s	−87° 47′	in 0.01″	$16^h 28^m$	in 0.01^s	−86° 12′	in 0.01″	$18^h 3^m$	in 0.01^s	−87° 39′	in 0.01″
Febr. 6	19.78^s	+ 3	37.98″	− 8	5.15^s	+ 5	18.45″	− 7	30.12^s	+11	48.75″	−4
7	20.42	− 4	38.10	− 8	5.54	+ 1	18.40	− 8	30.66	+ 6	48.55	−7
8	21.06	−11	38.22	− 7	5.94	− 3	18.36	− 8	31.21	0	48.35	−9
9	21.70	−16	38.34	− 3	6.34	− 7	18.32	− 6	31.76	− 7	48.16	−8
10	22.34	−17	38.47	+ 1	6.73	−10	18.29	− 3	32.32	−13	47.98	−6
11	22.97	−16	38.61	+ 5	7.13	−11	18.26	+ 1	32.89	−17	47.80	−3
12	23.60	−11	38.76	+ 8	7.53	−10	18.24	+ 5	33.46	−17	47.62	+1
13	24.23	− 5	38.91	+10	7.93	− 7	18.22	+ 8	34.03	−15	47.44	+5
14	24.86	+ 2	39.07	+10	8.33	− 3	18.21	+10	34.61	−11	47.27	+8
15	25.48	+ 8	39.23	+ 8	8.73	+ 1	18.20	+ 9	35.19	− 5	47.11	+9
16	26.10	+11	39.40	+ 5	9.13	+ 4	18.20	+ 7	35.78	+ 2	46.95	+8
17	26.72	+12	39.58	+ 1	9.54	+ 6	18.21	+ 4	36.37	+ 7	46.79	+6
18	27.34	+11	39.76	− 3	9.94	+ 7	18.22	0	36.97	+11	46.64	+2
19	27.95	+ 7	39.95	− 6	10.35	+ 6	18.24	− 4	37.57	+12	46.49	−2
20	28.56	+ 1	40.14	− 8	10.75	+ 4	18.26	− 7	38.17	+11	46.35	−5
21	29.17	− 5	40.33	− 9	11.15	+ 1	18.28	− 9	38.78	+ 7	46.21	−8
22	29.77	− 9	40.53	− 7	11.56	− 2	18.31	− 9	39.40	+ 2	46.08	−9
23	30.37	−12	40.73	− 4	11.96	− 5	18.34	− 7	40.02	− 3	45.95	−8
24	30.96	−12	40.93	− 1	12.37	− 6	18.38	− 4	40.64	− 7	45.82	−5
25	31.55	− 9	41.14	+ 3	12.77	− 6	18.42	0	41.26	− 9	45.70	−2
26	32.13	− 4	41.35	+ 5	13.18	− 4	18.47	+ 4	41.88	− 8	45.59	+2
27	32.71	+ 3	41.57	+ 6	13.58	− 1	18.53	+ 7	42.51	− 5	45.48	+6
28	33.29	+ 9	41.79	+ 6	13.98	+ 3	18.59	+ 8	43.14	− 1	45.37	+8
März 1	33.86	+14	42.02	+ 4	14.38	+ 6	18.65	+ 7	43.77	+ 5	45.27	+9
2	34.42	+16	42.25	+ 1	14.78	+ 8	18.72	+ 5	44.40	+10	45.18	+8
3	34.98	+16	42.49	− 2	15.18	+10	18.79	+ 2	45.04	+13	45.09	+5
4	35.54	+12	42.73	− 6	15.58	+ 9	18.87	− 2	45.68	+14	45.00	+1
5	36.09	+ 6	42.97	− 8	15.97	+ 6	18.95	− 6	46.32	+13	44.92	−3
6	36.63	− 1	43.22	− 8	16.37	+ 3	19.04	− 8	46.96	+ 9	44.85	−6
7	37.17	− 8	43.47	− 7	16.76	− 2	19.13	− 8	47.61	+ 3	44.78	−8
8	37.70	−14	43.73	− 4	17.16	− 6	19.23	− 6	48.26	− 4	44.71	−9
9	38.23	−17	43.99	0	17.55	− 9	19.33	− 4	48.91	−11	44.65	−7
10	38.75	−16	44.26	+ 4	17.94	−10	19.44	0	49.56	−15	44.60	−4
11	39.27	−13	44.53	+ 7	18.33	−10	19.55	+ 4	50.21	−17	44.55	−1
12	39.79	− 8	44.80	+10	18.72	− 8	19.67	+ 7	50.86	−16	44.50	+3
13	40.30	− 1	45.07	+10	19.11	− 5	19.79	+ 9	51.52	−13	44.46	+7
14	40.80	+ 5	45.35	+ 9	19.50	− 1	19.92	+10	52.17	− 7	44.43	+8
15	41.29	+10	45.63	+ 7	19.89	+ 3	20.05	+ 8	52.83	− 1	44.40	+9
sec δ, tg δ	+25.98		−25.97		+15.11		−15.08		+24.52		−24.50	

1913	σ Octantis 6^m.				β Octantis $4^m - 5^m$.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 20^m$	in ^{s} 0.01	$-89° 13'$	in $''$ 0.01	$22^h 37^m$	in ^{s} 0.01	$-81° 50'$	in $''$ 0.01	$23^h 15^m$	in ^{s} 0.01	$-87° 57'$	in $''$ 0.01
Febr. 6	16.72	+39	57.13	−2	10.11	+2	27.82	+7	15.37	+6	48.26	+8
7	17.93	+29	56.83	−6	10.09	+3	27.46	+4	15.12	+12	47.90	+5
8	19.17	+12	56.53	−8	10.07	+4	27.10	0	14.89	+16	47.54	+1
9	20.43	−8	56.24	−9	10.05	+4	26.73	−4	14.66	+16	47.18	−3
10	21.71	−29	55.95	−8	10.03	+3	26.37	−8	14.44	+13	46.81	−7
11	23.01	−44	55.66	−6	10.01	+1	26.00	−10	14.23	+7	46.44	−9
12	24.33	−52	55.38	−2	10.00	−1	25.63	−10	14.04	0	46.07	−10
13	25.67	−52	55.10	+2	9.99	−3	25.26	−9	13.85	−8	45.70	−10
14	27.04	−43	54.82	+6	9.98	−4	24.89	−6	13.67	−14	45.33	−8
15	28.43	−27	54.55	+7	9.97	−4	24.51	−3	13.50	−17	44.95	−4
16	29.83	−7	54.28	+8	9.97	−4	24.14	+1	13.34	−17	44.58	0
17	31.25	+13	54.01	+7	9.97	−3	23.76	+5	13.18	−14	44.20	+3
18	32.70	+29	53.75	+4	9.97	−1	23.38	+7	13.04	−8	43.82	+6
19	34.17	+38	53.49	0	9.97	0	23.00	+7	12.91	0	43.44	+7
20	35.65	+40	53.23	−3	9.98	+2	22.62	+6	12.79	+8	43.06	+7
21	37.15	+33	52.98	−6	9.99	+4	22.24	+3	12.67	+14	42.67	+5
22	38.67	+20	52.73	−8	10.00	+4	21.86	+1	12.57	+17	42.29	+2
23	40.21	+4	52.48	−8	10.01	+4	21.48	−2	12.47	+16	41.90	−1
24	41.76	−11	52.24	−6	10.02	+3	21.10	−5	12.39	+13	41.51	−4
25	43.33	−23	52.00	−3	10.04	+1	20.72	−6	12.31	+7	41.12	−5
26	44.92	−28	51.77	+1	10.06 10.08	−1 −2	20.34 19.96	−5 −3	12.25	−1	40.73	−6
27	46.52	−25	51.54	+5	10.10	−3	19.57	0	12.19	−8	40.34	−4
28	48.14	−15	51.31	+8	10.13	−4	19.19	+3	12.15	−13	39.95	−2
März 1	49.77	0	51.09	+9	10.16	−3	18.81	+6	12.11	−16	39.55	+2
2	51.42	+17	50.87	+9	10.19	−2	18.43	+9	12.09	−15	39.16	+5
3	53.09	+31	50.66	+7	10.22	0	18.04	+9	12.07	−11	38.76	+8
4	54.77	+40	50.45	+4	10.26	+1	17.66	+8	12.06	−4	38.37	+9
5	56.46	+42	50.24	0	10.30	+3	17.28	+5	12.06	+3	37.97	+9
6	58.17	+35	50.04	−5	10.34	+4	16.90	+2	12.07	+10	37.58	+6
7	59.89	+20	49.84	−8	10.38	+4	16.51	−3	12.09	+14	37.18	+3
8	61.62	+1	49.65	−9	10.43	+3	16.13	−6	12.12 12.16	+16 +15	36.79 36.39	−1 −5
9	63.36	−20	49.46	−9	10.48	+2	15.75	−9	12.21	+10	36.00	−8
10	65.11	−38	49.28	−7	10.53	0	15.37	−10	12.27	+3	35.60	−10
11	66.87	−50	49.10	−4	10.58	−2	14.99	−10	12.34	−5	35.20	−10
12	68.65	−53	48.92	0	10.64	−3	14.61	−8	12.41	−12	34.80	−9
13	70.44	−47	48.75	+4	10.70	−4	14.23	−4	12.50	−16	34.41	−6
14	72.23	−34	48.58	+7	10.76	−4	13.85	0	12.59	−17	34.01	−2
15	74.03	−15	48.42	+8	10.82	−4	13.47	+3	12.70	−15	33.61	+2
sec δ, tg δ	+74.53		−74.51		+7.05		−6.98		+28.11		−28.10	

1913	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in 0.01 s	$-85° 12'$	in 0.01 "	$9^h 9^m$	in 0.01 s	$-85° 19'$	in 0.01 "	$12^h 45^m$	in 0.01 s	$-84° 39'$	in 0.01 "
März 15	11.22 s	−5	36.72 "	− 6	36.28 s	+6	6.64 "	− 5	50.73 s	+6	4.82 "	+ 3
16	11.07	−6	36.37	− 3	36.08	+3	6.95	− 7	50.81	+5	5.20	− 1
17	10.92	−6	36.02	+ 1	35.88	0	7.26	− 7	50.89	+4	5.59	− 4
18	10.78	−4	35.67	+ 5	35.68	−3	7.56	− 6	50.96	+2	5.97	− 7
19	10.64	−2	35.32	+ 7	35.47	−6	7.86	− 3	51.03	−1	6.36	− 8
20	10.51	+1	34.97	+ 8	35.26	−7	8.15	0	51.10	−4	6.75	− 7
21	10.38	+4	34.61	+ 7	35.05	−7	8.44	+ 3	51.16	−5	7.14	− 5
22	10.25	+6	34.25	+ 5	34.83	−5	8.73	+ 6	51.22	−6	7.53	− 2
23	10.13	+6	33.89	+ 2	34.61	−3	9.01	+ 7	51.27	−5	7.92	+ 2
24	10.01	+5	33.53	− 1	34.39	0	9.29	+ 6	51.32	−3	8.31	+ 4
25	9.89	+3	33.16	− 4	34.17	+3	9.57	+ 5	51.37	−1	8.70	+ 5
26	9.78	0	32.79	− 6	33.94	+5	9.84	+ 1	51.41	+2	9.09	+ 5
27	9.67	−3	32.42	− 6	33.71	+5	10.11	− 3	51.45	+5	9.48	+ 4
28	9.57	−5	32.05	− 4	33.48	+5	10.37	− 6	51.49	+7	9.87	+ 1
29	9.47	−7	31.68	− 2	33.24	+3	10.63	− 9	51.53	+7	10.26	− 2
30	9.37	−7	31.31	+ 2	33.00	0	10.88	−10	51.56	+6	10.65	− 6
31	9.28	−6	30.94	+ 5	32.76	−2	11.13	− 9	51.59	+4	11.04	− 8
April 1	9.19	−4	30.56	+ 8	32.52	−5	11.38	− 6	51.61	+1	11.43	− 9
2	9.11	−1	30.18	+ 9	32.27	−7	11.63	− 3	51.63	−2	11.81	− 8
3	9.03	+2	29.80	+ 8	32.03	−7	11.87	+ 1	51.65	−4	12.20	− 5
4	8.95	+5	29.42	+ 5	31.78	−6	12.10	+ 5	51.66	−6	12.59	− 2
5	8.87	+7	29.04	+ 2	31.53	−3	12.33	+ 8	51.67	−6	12.98	+ 2
6	8.80	+7	28.66	− 3	31.28	−1	12.55	+10	51.68	−5	13.36	+ 6
7	8.73	+6	28.28	− 6	31.03	+3	12.77	+ 9	51.68	−3	13.75	+ 9
8	8.67	+4	27.90	− 9	30.77	+6	12.98	+ 7	51.68	−1	14.13	+11
9	8.61	+1	27.52	−10	30.51	+8	13.19	+ 4	51.67	+2	14.51	+10
10	8.56	−2	27.13	− 9	30.25	+8	13.40	0	51.66	+4	14.89	+ 8
11	8.51	−4	26.75	− 7	29.99	+7	13.60	− 3	51.65	+6	15.27	+ 5
12	8.47	−6	26.36	− 4	29.73	+4	13.80	− 6	51.64	+6	15.65	+ 1
13	8.43	−6	25.98	0	29.46	+2	13.99	− 7	51.62	+5	16.03	− 3
14	8.39	−5	25.59	+ 4	29.19	−2	14.18	− 6	51.60	+3	16.41	− 6
15	8.36	−3	25.21	+ 6	28.92	−5	14.36	− 4	51.57	0	16.79	− 7
16	8.33	0	24.82	+ 8	28.65	−7	14.54	− 2	51.54	−3	17.16	− 7
17	{8.30 8.28	+3 +5	24.44 24.05	+ 8 + 6	28.38	−7 −6	14.72	+ 2	51.51	−5	17.53	− 6
18	8.26	+6	23.67	+ 3	28.11	−6	14.89	+ 5	51.48	−6	17.90	− 3
19	8.25	+6	23.28	0	27.84	−4	15.05	+ 7	51.44	−6	18.27	0
20	8.25	+4	22.90	− 3	27.57	−1	15.21	+ 7	51.40	−4	18.64	+ 2
21	8.24	+2	22.51	− 5	27.30	+2	15.36	+ 5	51.36	−2	19.01	+ 5
sec δ, tg δ	+11.97		−11.93		+12.26		−12.21		+10.73		−10.68	

1913	Octantis 20 G. 7^m.				Octantis 26 G. 6^m–7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$ s	in 0.01 s	−87° 47′ ″	in 0.01 ″	$16^h 28^m$ s	in 0.01 s	−86° 12′ ″	in 0.01 ″	$18^h 3^m$ s	in 0.01 s	−87° 39′ ″	in 0.01 ″
März 15	41.29	+10	45.63	+ 7	19.89	+ 3	20.05	+ 8	52.83	− 1	44.40	+9
16	41.78	+12	45.91	+ 3	20.27	+ 6	20.18	+ 5	53.48	+ 5	44.37	+7
17	42.27	+12	46.20	− 2	20.65	+ 7	20.32	+ 1	54.14	+10	44.34	+4
18	42.75	+ 8	46.49	− 5	21.03	+ 7	20.46	− 3	54.79	+12	44.32	0
19	43.22	+ 2	46.78	− 8	21.41	+ 5	20.61	− 6	55.45	+11	44.31	−4
20	43.68	− 3	47.08	− 9	21.79	+ 2	20.76	− 8	56.10	+ 9	44.30	−7
21	44.14	− 8	47.38	− 8	22.17	− 1	20.92	− 9	56.76	+ 4	44.29	−9
22	44.59	−11	47.68	− 5	22.54	− 4	21.08	− 8	57.42	− 1	44.29	−8
23	45.04	−12	47.99	− 2	22.91	− 6	21.25	− 5	58.07	− 6	44.30	−6
24	45.48	−11	48.30	+ 1	23.28	− 6	21.42	− 1	58.73	− 8	44.31	−3
25	45.91	− 6	48.61	+ 4	23.64	− 5	21.59	+ 3	59.38	− 9	44.32	+1
26	46.33	0	48.92	+ 6	24.00	− 2	21.77	+ 6	60.03	− 7	44.34	+4
27	46.75	+ 7	49.24	+ 6	24.36	+ 1	21.95	+ 7	60.68	− 3	44.36	+7
28	47.16	+13	49.56	+ 5	24.72	+ 5	22.13	+ 7	61.33	+ 3	44.39	+9
29	47.56	+16	49.88	+ 2	25.08	+ 8	22.32	+ 6	61.98	+ 8	44.43	+8
30	47.95	+17	50.20	− 1	25.43	+ 9	22.52	+ 3	62.63	+12	44.47	+6
31	48.33	+14	50.53	− 5	25.78	+ 9	22.72	− 1	63.28	+15	44.52	+3
April 1	48.71	+ 9	50.86	− 7	26.13	+ 7	22.92	− 6	63.92	+14	44.57	−1
2	49.08	+ 2	51.19	− 8	26.47	+ 4	23.12	− 7	64.56	+11	44.62	−5
3	49.44	− 6	51.52	− 8	26.81	0	23.33	− 8	65.20	+ 5	44.68	−8
4	49.79	− 9	51.86	− 6	27.15	− 4	23.54	− 8	65.84	− 2	44.74	−9
5	50.13	−16	52.20	− 2	27.48	− 8	23.76	− 6	66.48	− 8	44.81	−8
6	50.47	−17	52.54	+ 2	27.81	−10	23.98	− 2	67.11	−13	44.88	−6
7	50.80	−15	52.88	+ 6	28.14	−10	24.21	+ 2	67.74	−17	44.96	−2
8	51.12	−10	53.22	+ 9	28.46	− 9	24.44	+ 6	68.37	−17	45.04	+2
9	51.44	− 4	53.56	+10	28.78	− 6	24.67	+ 9	69.00	−16	45.12	+6
10	51.75	+ 3	53.91	+10	29.10	− 3	24.90	+10	69.62	−10	45.21	+8
11	52.05	+ 8	54.26	+ 7	29.41	+ 1	25.14	+ 9	70.24	− 4	45.31	+9
12	52.34	+12	54.61	+ 4	29.72	+ 4	25.38	+ 7	70.86	+ 3	45.41	+8
13	52.63	+12	54.96	0	30.03	+ 6	25.62	+ 3	71.47	+ 8	45.51	+5
14	52.91	+10	55.31	− 4	30.34	+ 7	25.86	− 1	72.08	+11	45.62	+1
15	53.18	+ 5	55.66	− 7	30.64	+ 6	26.11	− 5	72.69	+12	45.73	−3
16	53.44	0	56.01	− 8	30.94	+ 3	26.36	− 8	73.29	+10	45.85	−6
17	53.69	− 6	56.36	− 8	31.23	0	26.61	− 9	73.89	+ 6	45.97	−8
18	53.93	−10	56.72	− 6	31.52	− 3	26.87	− 8	74.49	+ 1	46.09	−9
19	54.16	−13	57.07	− 3	31.80	− 5	27.13	− 6	75.08	− 4	46.22	−7
20	54.38	−12	57.43	0	32.08	− 6	27.39	− 3	75.67	− 8	46.36	−5
21	54.60	− 8	57.79	+ 3	32.35	− 5	27.66	+ 1	76.26	− 9	46.50	−1
sec δ, tg δ	+26.02		−26.01		+15.11		−15.08		+24.52		−24.50	

1913	σ Octantis 6ᵐ. AR.	☾ Gl.	Dekl.	☾ Gl.	β Octantis 4ᵐ–5ᵐ. AR.	☾ Gl.	Dekl.	☾ Gl.	τ Octantis 6ᵐ. AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 21^m$	in $0^s.01$	$-89° 13'$	in $0''.01$	$22^h 37^m$	in $0^s.01$	$-81° 50'$	in $0''.01$	$23^h 15^m$	in $0^s.01$	$-87° 57'$	in $0''.01$
März 15	14.03	−15	48.42	+ 8	10.82	−4	13.47	+ 3	12.70	−15	33.61	+ 2
16	15.85	+ 5	48.26	+ 7	10.88	−2	13.10	+ 6	12.81	−10	33.22	+ 5
17	17.68	+23	48.11	+ 5	10.94	0	12.73	+ 7	12.93	− 3	32.82	+ 7
18	19.51	+35	47.96	+ 2	11.01	+2	12.36	+ 6	13.06	+ 5	32.43	+ 7
19	21.36	+40	47.82	− 2	11.08	+3	11.99	+ 4	13.20	+11	32.04	+ 6
20	23.21	+36	47.68	− 5	11.15	+4	11.62	+ 2	13.35	+16	31.65	+ 3
21	25.07	+25	47.54	− 8	11.22	+4	11.25	− 2	13.51	+17	31.26	0
22	26.94	+10	47.41	− 8	11.30	+3	10.88	− 4	13.68	+15	30.88	− 3
23	28.82	− 6	47.28	− 7	11.38	+2	10.52	− 6	13.86	+ 9	30.49	− 5
24	30.71	−19	47.16	− 4	11.46	0	10.16	− 6	14.04	− 2	30.11	− 6
25	32.60	−27	47.04	− 1	11.54	−2	9.80	− 4	14.23	− 5	29.73	− 5
26	34.50	−27	46.93	+ 3	11.62	−3	9.44	− 2	14.43	−11	29.35	− 3
27	36.40	−20	46.83	+ 7	11.71	−4	9.09	+ 2	14.64	−15	28.97	+ 1
28	38.31	− 6	46.73	+ 9	11.80	−3	8.74	+ 5	14.86	−16	28.59	+ 4
29	40.22	+16	46.63	+10	11.89	−2	8.39	+ 8	15.09	−12	28.21	+ 7
30	42.13	+26	46.54	+ 8	11.98	−1	8.04	+ 9	15.32	− 7	27.84	+ 9
31	44.05	+38	46.45	+ 5	12.07	+1	7.69	+ 9	15.57	0	27.46	+ 9
April 1	45.97	+43	46.37	+ 1	12.17	+2	7.35	+ 7	15.82	+ 7	27.09	+ 8
2	47.89	+39	46.29	− 3	12.27	+3	7.01	+ 4	16.08	+13	26.72	+ 5
3	49.81	+27	46.22	− 6	12.37	+4	6.67	0	16.35	+16	26.36	+ 1
4	51.73	+ 9	46.15	− 9	12.47	+3	6.33	− 5	16.63	+16	25.99	− 4
5	53.65	−12	46.09	− 9	12.58	+2	6.00	− 8	16.92	+12	25.63	− 7
6	55.57	−31	46.03	− 8	12.69	+1	5.67	−10	17.22	+ 6	25.27	− 9
7	57.49	−46	45.98	− 5	12.80	−1	5.34	−10	17.52	− 2	24.91	−10
8	59.41	−53	45.93	− 1	12.91	−3	5.01	− 8	17.83	− 9	24.55	− 9
9	61.34	−50	45.88	+ 3	13.02	−4	4.69	− 6	18.15	−15	24.20	− 7
10	63.26	−40	45.84	+ 6	13.13	−4	4.37	− 2	18.48	−17	23.85	− 3
11	65.19	−24	45.80	+ 8	13.24	−4	4.05	+ 1	18.81	−17	23.50	0
12	67.12	− 4	45.77	+ 8	13.36	−3	3.74	+ 5	19.15	−13	23.15	+ 4
13	69.04	+16	45.75	+ 6	13.48	−1	3.43	+ 7	19.50	− 6	22.81	+ 6
14	70.96	+30	45.73	+ 3	13.60	+1	3.12	+ 7	19.86	+ 2	22.47	+ 7
15	72.87	+38	45.71	0	13.72	+3	2.82	+ 5	20.22	+ 9	22.13	+ 6
16	74.78	+38	45.70	− 4	13.84	+4	2.52	+ 3	20.59	+14	21.80	+ 4
17	76.69	+29	45.69	− 7	13.97	+4	2.22	0	20.97	+17	21.47	+ 1
18	78.59	+16	45.69	− 8	14.10	+4	1.93	− 3	21.36	+16	21.14	− 2
19	80.49	0	45.70	− 8	14.23	+3	1.64	− 5	21.75	+12	20.82	− 4
20	82.39	−15	45.71	− 6	14.36	+1	1.35	− 6	22.15	+ 5	20.50	− 6
21	84.28	−25	45.73	− 2	14.49	−1	1.06	− 5	22.56	− 2	20.19	− 5
sec δ, tg δ	+74.36		−74.35		+7.04		−6.97		+28.06		−28.04	

1913	Octantis 4 G. 6^m.				ζ Octantis 6^m-5^m.				ι Octantis 6^m-5^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in 0.01^s	$-85° 12'$	in $0.01''$	$9^h 9^m$	in 0.01^s	$-85° 19'$	in $0.01''$	$12^h 45^m$	in 0.01^s	$-84° 39'$	in $0.01''$
April 21	$8^s.24$	+2	$22''.51$	−5	$27^s.30$	+2	$15''.36$	+5	$51^s.36$	−2	$19''.01$	+5
22	8.24	−2	22.12	−6	27.02	+4	15.51	+3	51.31	+1	19.37	+6
23	8.24	−5	21.74	−5	26.75	+5	15.65	−1	51.26	+4	19.73	+4
24	8.25	−7	21.36	−2	26.47	+5	15.79	−5	51.21	+6	20.09	+2
25	8.26	−8	20.98	+1	26.19	+4	15.92	−8	51.15	+7	20.45	−1
26	8.28	−7	20.60	+4	25.91	+2	16.05	−10	51.09	+6	20.80	−5
27	8.30	−5	20.22	+6	25.63	−2	16.17	−10	51.02	+5	21.15	−7
28	8.32	−2	19.84	+8	25.35	−4	16.29	−8	50.95	+2	21.50	−9
29	8.35	+1	19.46	+8	25.07	−6	16.40	−5	50.88	−1	21.85	−9
30	8.38	+4	19.08	+7	24.79	−7	16.51	−1	50.81	−3	22.19	−7
Mai 1	8.42	+6	18.70	+4	24.51	−6	16.61	+4	50.73	−5	22.53	−3
2	8.46	+7	18.33	−1	24.23	−4	16.71	+7	50.65	−6	22.87	+1
3	8.50	+7	17.96	−5	23.95	−1	16.80	+9	50.57	−6	23.21	+5
4	8.55	+5	17.59	−8	23.66	+2	16.89	+10	50.48	−4	23.54	+8
5	8.60	+3	17.22	−10	23.38	+5	16.97	+8	50.39	−2	23.87	+10
6	8.65	−1	16.85	−11	23.09	+7	17.05	+5	50.30	+1	24.20	+11
7	8.71	−4	16.48	−9	22.81	+8	17.12	+2	50.20	+4	24.52	+9
8	8.77	−6	16.11	−6	22.53	+8	17.19	−2	50.10	+5	24.84	+6
9	8.84	−6	15.75	−2	22.24	+6	17.25	−5	50.00	+6	25.16	+2
10	8.91	−5	15.39	+2	21.96	+3	17.30	−7	49.90	+5	25.47	−2
11	8.99	−4	15.03	+5	21.68	0	17.35	−7	49.79	+3	25.78	−5
12	9.07	−1	14.67	+8	21.40	−4	17.40	−5	49.68	+1	26.09	−7
13	9.15	+2	14.31	+8	21.12	−6	17.44	−3	49.57	−2	26.40	−7
14	9.24	+4	13.96	+7	20.84	−7	17.47	+1	49.45	−4	26.70	−6
15	9.33	+6	13.61	+4	20.56	−7	17.49	+4	49.33	−6	27.00	−4
16	9.42	+6	13.26	+1	20.28	−5	17.51	+6	49.21	−6	27.30	−1
17	9.52	+5	12.91	−2	20.00	−2	17.52	+7	49.09	−5	27.59	+2
18	9.62	+3	12.57	−5	19.72	+1	17.53	+6	48.96	−3	27.88	+4
19	9.73	0	12.23	−6	19.44	+3	17.54	+4	48.83	0	28.17	+6
20	9.84	−3	11.89	−5	19.17	+5	17.54	+1	48.70	+3	28.45	+5
21	9.95	−6	11.56	−4	18.89	+5	17.54	−3	48.57	+5	28.72	+3
22	10.07	−7	11.23	−1	18.61	+4	17.53	−7	48.43	+6	28.99	0
23	10.19	−7	10.90	+3	18.33	+2	17.52	−9	48.29	+6	29.26	−3
24	10.32	−6	10.57	+6	18.06	0	17.50	−10	48.15	+5	29.52	−6
25	10.45	−4	10.25	+8	17.78	−3	17.47	−9	48.01	+3	29.78	−8
26	10.58	0	9.93	+9	17.51	−5	17.44	−6	47.86	0	30.03	−9
27	10.71	+3	9.61	+8	17.24	−7	17.41	−2	47.71	−3	30.28	−8
28	10.85	+6	9.30	+5	16.97	−7	17.37	+2	47.56	−5	30.53	−5
sec δ, tg δ	+11.96		−11.92		+12.26		−12.22		+10.74		−10.69	

1913	Octantis 20 G. 7^m.				Octantis 26 G. $6^m - 7^m$.				γ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in ^{s} 0.01	−87° 47′	in ″ 0.01	$16^h 28^m$	in ^{s} 0.01	−86° 12′	in ″ 0.01	$18^h 4^m$	in ^{s} 0.01	−87° 39′	in ″ 0.01
April 21	$54^s.60$	− 8	57″.79	+ 3	$32^s.35$	− 5	27″.66	+ 1	$16^s.26$	− 9	46″.50	−1
22	54.81	− 2	58.15	+ 6	32.62	− 3	27.93	+ 5	16.84	− 8	46.64	+3
23	55.01	+ 4	58.51	+ 6	32.88	0	28.20	+ 7	17.42	− 5	46.79	+6
24	55.20	+11	58.87	+ 5	33.14	+ 3	28.48	+ 8	17.99	0	46.94	+8
25	55.38	+15	59.23	+ 3	33.40	+ 7	28.76	+ 7	18.56	+ 6	47.09	+9
26	55.55	+17	59.59	0	33.66	+ 9	29.04	+ 4	19.12	+11	47.25	+7
27	55.71	+16	59.95	− 3	33.91	+11	29.32	0	19.68	+14	47.41	+4
28	55.87	+11	60.31	− 6	34.16	+ 9	29.60	− 4	20.23	+15	47.58	0
29	56.02	+ 5	60.68	− 8	34.40	+ 6	29.89	− 6	20.78	+13	47.75	−4
30	56.16	− 2	61.04	− 8	34.64	+ 2	30.18	− 8	21.32	+ 8	47.93	−7
Mai 1	56.29	− 9	61.40	− 7	34.87	− 2	30.47	− 8	21.86	+ 2	48.11	−9
2	56.41	−14	61.76	− 5	35.10	− 6	30.76	− 7	22.39	− 5	48.29	−8
3	56.52	−16	62.12	0	35.33	− 9	31.06	− 4	22.92	−11	48.48	−7
4	56.63	−16	62.48	+ 4	35.55	−10	31.36	0	23.44	−16	48.67	−4
5	56.72	−12	62.84	+ 8	35.76	−10	31.66	+ 4	23.95	−17	48.86	0
6	56.81	− 6	63.20	+10	35.97	− 7	31.96	+ 8	24.46	−16	49.06	+4
7	56.89	0	63.56	+10	36.17	− 4	32.26	+ 9	24.97	−12	49.26	+7
8	56.96	+ 6	63.92	+ 9	36.37	0	32.56	+10	25.47	− 6	49.46	+9
9	57.02	+11	64.28	+ 6	36.56	+ 3	32.86	+ 8	25.96	0	49.67	+8
10	57.07	+12	64.64	+ 2	36.75	+ 6	33.17	+ 5	26.45	+ 6	49.88	+6
11	57.11	+11	65.00	− 2	36.94	+ 7	33.48	+ 1	26.93	+10	50.09	+3
12	57.14	+ 7	65.35	− 6	37.12	+ 6	33.79	− 4	27.40	+11	50.31	−1
13	57.16	+ 2	65.71	− 8	37.29	+ 4	34.10	− 7	27.86	+10	50.53	−5
14	57.17	− 3	66.06	− 8	37.46	+ 1	34.41	− 8	28.32	+ 7	50.76	−8
15	57.18	− 9	66.42	− 7	37.63	− 2	34.73	− 9	28.77	+ 2	50.99	−9
16	57.18	−12	66.77	− 5	37.79	− 5	35.05	− 7	29.22	− 2	51.22	−8
17	57.17	−12	67.12	− 1	37.94	− 6	35.37	− 4	29.66	− 6	51.46	−6
18	57.15	−10	67.47	+ 2	38.09	− 6	35.69	0	30.09	− 9	51.70	−2
19	57.12	− 5	67.82	+ 5	38.24	− 4	36.01	+ 4	30.52	− 9	51.94	+2
20	57.08	+ 2	68.16	+ 6	38.38	− 2	36.33	+ 6	30.94	− 6	52.18	+5
21	57.03	+ 8	68.51	+ 6	38.51	+ 2	36.65	+ 7	31.35	− 2	52.43	+8
22	56.97	+14	68.85	+ 4	38.64	+ 6	36.97	+ 7	31.75	+ 4	52.68	+9
23	56.91	+17	69.19	+ 1	38.77	+ 8	37.29	+ 5	32.15	+ 9	52.93	+8
24	56.84	+16	69.53	− 2	38.89	+10	37.61	+ 2	32.55	+13	53.18	+6
25	56.76	+13	69.87	− 5	39.00	+ 9	37.93	− 2	32.93	+15	53.44	+2
26	56.67	+ 8	70.21	− 8	39.11	+ 7	38.26	− 5	33.31	+14	53.70	−2
27	56.57	+ 1	70.54	− 9	39.21	+ 4	38.58	− 8	33.67	+10	53.96	−6
28	56.46	− 7	70.87	− 8	39.31	0	38.91	− 9	34.03	+ 4	54.23	−8
sec δ, tg δ	+26.06		−26.04		+15.13		−15.09		+24.53		−24.51	

1913	σ Octantis 6ᵐ.				β Octantis 4ᵐ–5ᵐ.				τ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 22^m$	in 0.01 s	$-89° 13'$	in 0.01"	$22^h 37^m$	in 0.01 s	$-81° 49'$	in 0.01"	$23^h 15^m$	in 0.01 s	$-87° 57'$	in 0.01"
April 21	24.28	−25	45.73	− 2	14.49	−1	61.06	− 5	22.56	− 2	20.19	− 5
22	26.17	−28	45.75	+ 2	14.62	−2	60.78	− 3	22.98	− 9	19.88	− 4
23	28.05	−23	45.77	+ 6	14.75	−3	60.51	0	23.40	−14	19.57	− 1
24	29.92	−11	45.80	+ 8	14.89	−4	60.24	+ 4	23.83	−16	19.26	+ 3
25	31.79	+ 4	45.83	+10	15.03	−3	59.98	+ 7	24.26	−14	18.96	+ 6
26	33.65	+21	45.87	+ 9	15.17	−2	59.72	+ 9	24.70	− 9	18.66	+ 8
27	35.51	+35	45.91	+ 6	15.31	0	59.46	+10	25.15	− 3	18.36	+ 9
28	37.36	+42	45.96	+ 3	15.45	+2	59.20	+ 8	25.60	+ 4	18.07	+ 9
29	39.20	+42	46.02	− 1	15.59	+3	58.94	+ 5	26.06	+11	17.78	+ 6
30	41.03	+34	46.08	− 5	15.73	+4	58.70	+ 1	26.52	+15	17.49	+ 2
Mai 1	42.86	+18	46.14	− 8	15.87	+4	58.46	− 3	26.99	+16	17.21	− 2
2	44.68	− 2	46.21	− 9	16.02	+3	58.22	− 7	27.47	+13	16.93	− 6
3	46.48	−23	46.28	− 9	16.17	+2	57.98	− 9	27.95	+ 8	16.66	− 9
4	48.27	−40	46.36	− 6	16.32	0	57.75	−10	28.44	+ 1	16.39	−10
5	50.06	−51	46.44	− 3	16.47	−2	57.52	− 9	28.93	− 6	16.13	−10
6	51.83	−53	46.52	+ 1	16.62	−4	57.30	− 7	29.43	−12	15.87	− 8
7	53.59	−46	46.61	+ 5	16.77	−4	57.08	− 4	29.93	−16	15.61	− 5
8	55.34	−31	46.70	+ 7	16.92	−4	56.87	0	30.44	−17	15.36	− 1
9	57.08	−12	46.80	+ 8	17.07	−3	56.66	+ 4	30.95	−15	15.12	+ 3
10	58.81	+ 8	46.90	+ 7	17.22	−2	56.46	+ 6	31.47	− 9	14.88	+ 5
11	60.53	+25	47.01	+ 5	17.38	0	56.26	+ 7	31.99	− 1	14.64	+ 7
12	62.24	+35	47.12	+ 1	17.53	+2	56.07	+ 6	32.52	+ 6	14.41	+ 7
13	63.93	+38	47.24	− 3	17.69	+3	55.88	+ 4	33.05	+13	14.18	+ 5
14	65.61	+33	47.36	− 6	17.85	+4	55.69	+ 1	33.59	+16	13.96	+ 2
15	67.27	+17	47.49	− 8	18.01	+4	55.51	− 2	34.14	+17	13.74	− 1
16	68.92	+ 5	47.62	− 8	18.17	+3	55.34	− 5	34.69	+14	13.53	− 3
17	70.56	−10	47.76	− 7	18.33	+2	55.17	− 6	35.24	+ 8	13.32	− 5
18	72.18	−22	47.90	− 4	18.49	0	55.00	− 6	35.80	+ 1	13.11	− 6
19	73.79	−28	48.04	0	18.66	−2	54.84	− 4	36.36	− 7	12.91	− 5
20	75.38	−26	48.19	+ 4	18.82	−3	54.69	− 1	36.92	−12	12.72	− 2
21	76.96	−17	48.34	+ 7	18.99	−4	54.54	+ 3	37.49	−15	12.53	+ 1
22	78.52	− 2	48.50	+ 9	19.15	−3	54.40	+ 6	38.06	−15	12.35	+ 5
23	80.06	+15	48.66	+ 9	19.31	−2	54.26	+ 9	38.63	−12	12.17	+ 8
24	81.58	+30	48.82	+ 7	19.47	−1	54.13	+10	39.20	− 6	12.00	+ 9
25	83.09	+41	48.99	+ 4	19.64	+1	54.00	+ 9	39.78	+ 2	11.83	+ 9
26	84.58	+44	49.16	0	19.80	+3	53.88	+ 6	40.36	+ 9	11.66	+ 8
27	86.06	+38	49.34	− 4	19.97	+4	53.76	+ 3	40.95	+14	11.50	+ 4
28	87.52	+25	49.52	− 7	20.13	+4	53.65	0	41.54	+16	11.35	0
sec δ, tg δ	+74.39		−74.38		+7.04		−6.97		+28.01		−27.99	

1913	Octantis 4 G. 6^m.				ζ Octantis 6^m-5^m.				ι Octantis. 6^m-5^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h42^m	in $0^s.01$	$-85°12'$	in $0''.01$	9^h9^m	in $0^s.01$	$-85°19'$	in $0''.01$	12^h45^m	in $0^s.01$	$-84°39'$	in $0''.01$
Mai 28	$10^s.85$	+6	$9''.30$	+ 5	$16^s.97$	−7	$17''.37$	+ 2	$47^s.56$	−5	$30''.53$	− 5
29	10.99	+7	8.99	+ 1	16.70	−5	17.32	+ 6	47.41	−6	30.77	− 1
30	11.14	+7	8.68	− 3	16.43	−3	17.27	+ 9	47.25	−6	31.01	+ 3
31	11.29	+6	8.37	− 7	16.17	+1	17.21	+10	47.09	−5	31.24	+ 7
Juni 1	11.44	+4	8.07	− 9	15.91	+4	17.15	+ 9	46.93	−3	31.47	+10
2	11.59	0	7.77	−11	15.65	+6	17.08	+ 7	46.77	0	31.69	+11
3	11.75	−3	7.48	−10	15.39	+8	17.01	+ 3	46.61	+3	31.91	+10
4	11.91	−5	7.19	− 7	15.13	+8	16.93	0	46.44	+5	32.13	+ 8
5	12.07	−6	6.91	− 4	14.87	+7	16.85	− 4	46.27	+6	32.34	+ 4
6	12.24	−6	6.63	0	14.61	+4	16.76	− 6	46.10	+6	32.54	0
7	12.41	−5	6.35	+ 4	14.36	+1	16.66	− 7	45.93	+4	32.74	− 4
8	12.58	−2	6.07	+ 6	14.11	−2	16.56	− 6	45.76	+2	32.94	− 6
9	12.76	+1	5.80	+ 8	13.86	−5	16.46	− 4	45.58	−1	33.13	− 7
10	12.94	+4	5.54	+ 7	13.61	−7	16.35	− 1	45.40	−3	33.31	− 6
11	13.12	+6	5.28	+ 5	13.37	−7	16.24	+ 3	45.22	−5	33.49	− 5
12	13.31	+6	5.02	+ 2	13.13	−5	16.12	+ 6	45.04	−6	33.67	− 2
13	13.50	+6	4.77	− 1	12.89	−3	16.00	+ 7	44.85	−6	33.84	+ 1
14	13.69	+4	4.52	− 4	12.65	0	15.87	+ 7	44.67	−4	34.00	+ 4
15	13.88	+1	4.28	− 6	12.41	+2	15.74	+ 5	44.48	−1	34.16	+ 5
16	14.08	−2	4.04	− 6	12.18	+4	15.60	+ 2	44.29	+1	34.32	+ 5
17	14.28	−5	3.81	− 4	11.95	+5	15.46	− 2	44.10	+4	34.47	+ 4
18	14.48	−7	3.58	− 2	11.72	+5	15.31	− 6	43.91	+6	34.61	+ 1
19	14.68	−8	3.35	+ 1	11.49	+3	15.16	− 8	43.72	+7	34.75	− 2
20	14.89	−7	3.13	+ 5	11.27	+1	15.00	−10	43.53	+6	34.88	− 5
21	15.10	−5	2.92	+ 8	11.05	−2	14.84	−10	43.33	+4	35.01	− 8
22	15.31	−2	2.71	+ 9	10.83	−5	14.67	− 8	43.14	+2	35.13	− 9
23	15.52	+2	2.50	+ 8	10.61	−7	14.50	− 4	42.94	−1	35.25	− 9
24	15.74	+5	2.30	+ 6	10.40	−7	14.33	0	42.74	−4	35.36	− 6
25	15.96	+7	2.10	+ 3	10.19	−6	14.15	+ 4	42.54	−6	35.47	− 3
26	16.18	+7	1.91	− 1	9.98	−4	13.96	+ 8	42.34	−6	35.57	+ 1
27	16.40	+7	1.72	− 5	9.78	−1	13.77	+ 9	42.14	−6	35.66	+ 5
28	16.63	+5	1.54	− 8	9.58	+3	13.58	+ 9	41.94	−4	35.75	+ 8
29	16.85	+2	1.37	−10	9.38	+6	13.39	+ 8	41.73	−1	35.84	+10
30	17.08	−1	1.20	−10	9.19	+7	13.19	+ 5	41.53	+2	35.92	+10
Juli 1	17.31	−4	1.03	− 8	9.00	+8	12.99	+ 1	41.32	+4	35.99	+ 9
2	17.54	−6	0.87	− 5	8.81	+8	12.78	− 3	41.12	+5	36.06	+ 6
3	17.77	−6	0.72	− 1	8.63	+6	12.57	− 5	40.91	+6	36.12	+ 2
4	18.00	−5	0.57	+ 2	8.45	+3	12.35	− 7	40.71	+5	36.17	− 2
sec δ, tg δ	+11.95		−11.91		+12.26		−12.22		+10.74		−10.70	

1913	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in 0.01 s	$-87° 48'$	in 0.01"	$16^h 28^m$	in 0.01 s	$-86° 12'$	in 0.01"	$18^h 4^m$	in 0.01 s	$-87° 39'$	in 0.01"
Mai 28	56.46	−7	10.87	−8	39.31	0	38.91	−9	34.03	+4	54.23	−8
29	56.34	−13	11.20	−5	39.40	−5	39.23	−8	34.38	−2	54.50	−9
30	56.21	−16	11.53	−1	39.48	−8	39.56	−5	34.72	−9	54.77	−8
31	56.07	−16	11.86	+3	39.56	−10	39.88	−1	35.06	−14	55.04	−5
Juni 1	55.93	−14	12.18	+7	39.64	−10	40.21	+3	35.38	−17	55.31	−1
2	55.78	−9	12.50	+9	39.71	−9	40.53	+6	35.70	−17	55.59	+3
3	55.62	−2	12.82	+10	39.77	−6	40.86	+9	36.01	−14	55.87	+6
4	55.45	+4	13.14	+10	39.83	−2	41.18	+10	36.31	−9	56.15	+8
5	55.27	+9	13.45	+7	39.88	+2	41.51	+9	36.61	−3	56.43	+9
6	55.08	+12	13.76	+4	39.93	+5	41.83	+6	36.89	+4	56.71	+7
7	54.89	+12	14.07	0	39.97	+7	42.16	+2	37.17	+8	57.00	+4
8	54.69	+9	14.38	−4	40.01	+6	42.48	−2	37.44	+11	57.29	+1
9	54.48	+4	14.68	−6	40.04	+5	42.80	−6	37.70	+11	57.58	−3
10	54.26	−2	14.98	−8	40.07	+2	43.12	−8	37.95	+9	57.87	−7
11	54.03	−8	15.27	−8	40.09	−1	43.44	−9	38.19	+4	58.16	−8
12	53.80	−11	15.56	−6	40.10	−4	43.76	−8	38.42	−1	58.46	−9
13	53.56	−13	15.85	−3	40.11	−6	44.08	−5	38.65	−5	58.76	−7
14	53.31	−11	16.13	+1	40.11	−6	44.40	−2	38.86	−8	59.06	−4
15	53.05	−7	16.41	+4	40.11	−5	44.72	+2	39.07	−9	59.36	0
16	52.78	−1	16.69	+6	40.10	−3	45.03	+5	39.27	−7	59.66	+4
17	52.51	+6	16.97	+6	40.09	0	45.34	+7	39.46	−4	59.96	+7
18	52.23	+12	17.24	+5	40.07	+4	45.65	+8	39.64	+2	60.26	+9
19	51.94	+16	17.51	+3	40.04	+7	45.96	+6	39.81	+8	60.56	+8
20	51.64	+17	17.77	−1	40.01	+10	46.27	+3	39.97	+12	60.86	+6
21	51.34	+15	18.03	−4	39.98	+10	46.58	0	40.13	+15	61.17	+3
22	51.03	+10	18.29	−7	39.94	+8	46.89	−4	40.27	+15	61.47	0
23	50.71	+4	18.54	−9	39.89	+5	47.20	−7	40.40	+12	61.77	−4
24	50.39	−4	18.79	−9	39.84	+1	47.50	−8	40.53	+7	62.08	−7
25	50.06	−10	19.04	−6	39.78	−3	47.80	−8	40.65	+1	62.38	−9
26	49.72	−15	19.28	−3	39.72	−7	48.10	−6	40.75	−6	62.69	−8
27	49.37	−16	19.52	+1	39.65	−9	48.40	−3	40.85	−12	62.99	−6
28	49.02	−15	19.75	+5	39.58	−10	48.69	+1	40.94	−16	63.30	−3
29	48.66	−11	19.98	+8	39.50	−9	48.98	+5	41.02	−17	63.61	+1
30	48.29	−5	20.20	+10	39.41	−7	49.27	+8	41.09	−15	63.91	+5
Juli 1	47.91	+2	20.42	+10	39.32	−3	49.56	+10	41.15	−11	64.22	+8
2	47.53	+7	20.64	+8	39.23	0	49.85	+9	41.20	−5	64.53	+9
3	47.15	+11	20.85	+5	39.13	+4	50.13	+7	41.25	+1	64.84	+8
4	46.76	+12	21.06	+1	39.02	+6	50.41	+4	41.28	+7	65.15	+6
sec δ, tg δ	+26.10		−26.08		+15.14		−15.11		+24.56		−24.54	

1913	σ Octantis 6ᵐ.				β Octantis 4ᵐ–5ᵐ.				τ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 23^m$ s	in s 0.01	−89° 13′ ″	in ″ 0.01	$22^h 37^m$ s	in s 0.01	−81° 49′ ″	in ″ 0.01	$23^h 15^m$ s	in s 0.01	−87° 57′ ″	in ″ 0.01
Mai 28	27.52	+25	49.52	−7	20.13	+4	53.65	0	41.54	+16	11.35	0
29	28.96	+6	49.71	−9	20.30	+3	53.54	−5	42.13	+15	11.20	−4
30	30.38	−15	49.90	−9	20.46	+2	53.44	−8	42.72	+11	11.05	−8
31	31.79	−34	50.09	−7	20.63	0	53.34	−10	43.32	+4	10.91	−10
Juni 1	33.18	−47	50.29	−4	20.79	−2	53.25	−10	43.92	−3	10.78	−10
2	34.54	−53	50.49	0	20.96	−3	53.16	−8	44.52	−10	10.65	−9
3	35.88	−49	50.69	+3	21.12	−4	53.08	−5	45.12	−14	10.53	−6
4	37.20	−38	50.90	+6	21.29	−4	53.00	−1	45.73	−17	10.41	−3
5	38.50	−20	51.11	+8	21.45	−4	52.93	+2	46.33	−13	10.30	+1
6	39.78	0	51.33	+7	21.62	−3	52.86	+5	46.94	−11	10.19	+4
7	41.04	+20	51.55	+5	21.79	−1	52.80	+6	47.55	−5	10.09	+6
8	42.28	+31	51.77	+2	21.96	+1	52.74	+6	48.16	+3	9.99	+7
9	43.50	+37	52.00	−1	22.12	+3	52.69	+5	48.77	+10	9.90	+5
10	44.69	+35	52.23	−5	22.29	+4	52.65	+2	49.38	+15	9.82	+3
11	45.86	+25	52.46	−7	22.46	+4	52.61	−1	49.99	+17	9.74	0
12	47.02	+11	52.69	−8	22.63	+3	52.57	−4	50.60	+15	9.67	−3
13	48.15	−5	52.93	−8	22.79	+2	52.54	−6	51.21	+10	9.60	−5
14	49.25	−18	53.17	−5	22.96	+1	52.52	−6	51.82	+3	9.54	−6
15	50.33	−25	53.41	−1	23.12	−1	52.50	−5	52.43	−4	9.48	−5
16	51.39	−28	53.65	+3	23.29	−3	52.49	−2	53.05	−10	9.43	−3
17	52.42	−21	53.90	+6	23.45	−4	52.48	+1	53.66	−15	9.38	0
18	53.43	−8	54.15	+9	23.62	−4	52.48	+5	54.27	−16	9.34	+4
19	54.42	+9	54.41	+10	23.78	−3	52.49	+8	54.89	−13	9.31	+7
20	55.38	+25	54.67	+9	23.94	−1	52.50	+9	55.50	−8	9.28	+9
21	56.32	+38	54.93	+6	24.10	+1	52.52	+10	56.11	−1	9.26	+10
22	57.23	+44	55.19	+2	24.26	+2	52.54	+8	56.72	+6	9.24	+9
23	58.11	+42	55.45	−2	24.42	+3	52.57	+5	57.33	+12	9.23	+6
24	58.97	+32	55.72	−6	24.58	+4	52.60	+1	57.93	+16	9.23	+2
25	59.81	+15	55.99	−8	24.74	+4	52.64	−4	58.54	+16	9.23	−2
26	60.62	−7	56.26	−9	24.90	+3	52.68	−7	59.14	+13	9.23	−6
27	61.40	−26	56.53	−8	25.06	+1	52.73	−9	59.74	+7	9.24	−9
28	62.16	−42	56.81	−6	25.21	−1	52.78	−10	60.34	0	9.26	−10
29	62.89	−52	57.09	−2	25.37	−3	52.84	−9	60.94	−8	9.28	−10
30	63.59	−52	57.37	+2	25.52	−4	52.91	−6	61.54	−14	9.31	−8
Juli 1	64.27	−43	57.65	+5	25.67	−4	52.98	−3	62.13	−17	9.35	−4
2	64.92	−28	57.94	+7	25.82	−4	53.05	+1	62.72	−17	9.39	0
3	65.54	−8	58.22	+8	25.97	−3	53.13	+4	63.31	−14	9.43	+3
4	66.14	+11	58.51	+7	26.12	−2	53.22	+6	63.89	−8	9.48	+5
sec δ, tg δ	+74.55		−74.54		+7.04		−6.96		+27.99		−27.97	

1913	Octantis 4 G. 6^m.				ζ Octantis 6^m–5^m.				ι Octantis 6^m–5^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h 42^m	in ^{s} 0.01	−85° 11′	in ″ 0.01	9^h 9^m	in ^{s} 0.01	−85° 19′	in ″ 0.01	12^h 45^m	in ^{s} 0.01	−84° 39′	in ″ 0.01
Juli 4	18.00	−5	60.57	+ 2	8.45	+3	12.35	− 7	40.71	+5	36.17	− 2
5	18.24	−3	60.42	+ 6	8.27	−1	12.13	− 6	40.50	+3	36.22	− 5
6	18.48	0	60.28	+ 7	8.10	−4	11.91	− 5	40.29	0	36.27	− 7
7	18.72	+3	60.15	+ 8	7.93	−6	11.69	− 2	40.08	−2	36.31	− 7
8	18.96	+5	60.02	+ 6	7.77	−7	11.46	+ 2	39.88	−5	36.34	− 6
9	19.20	+6	59.90	+ 3	7.61	−6	11.22	+ 5	39.67	−6	36.37	− 3
10	19.44	+6	59.78	0	7.45	−4	10.98	+ 7	39.46	−6	36.39	0
11	19.68	+5	59.67	− 3	7.29	−2	10.74	+ 7	39.25	−5	36.41	+ 3
12	19.92	+2	59.57	− 5	7.14	+1	10.49	+ 7	39.04	−3	36.42	+ 5
13	20.17	−1	59.47	− 6	6.99	+4	10.24	+ 4	38.83	0	36.43	+ 6
14	20.42	−4	59.37	− 5	6.85	+5	9.99	0	38.62	+3	36.43	+ 5
15	20.66	−6	59.29	− 3	6.71	+5	9.74	− 4	38.41	+5	36.42	+ 3
16	20.91	−8	59.21	0	6.58	+4	9.48	− 7	38.20	+6	36.41	− 1
17	21.16	−8	59.13	+ 4	6.45	+2	9.22	− 9	37.99	+6	36.39	− 4
18	21.41	−6	59.06	+ 6	6.32	−1	8.96	−10	37.78	+5	36.37	− 7
19	21.66	−3	59.00	+ 8	6.19	−4	8.70	− 9	37.58	+3	36.34	− 9
20	21.91	0	58.94	+ 9	6.07	−6	8.43	− 6	37.37	0	36.30	− 9
21	22.16	+4	58.89	+ 7	5.95	−7	8.16	− 2	37.17	−3	36.26	− 8
22	22.41	+6	58.84	+ 4	5.84	−7	7.89	+ 2	36.96	−5	36.22	− 5
23	22.67	+8	58.80	+ 1	5.73	−5	7.61	+ 6	36.76	−6	36.17	+ 1
24	22.92	+7	58.77	− 4	5.63	−2	7.33	+ 9	36.55	−6	36.11	+ 4
25	23.17	+5	58.74	− 7	5.53	+1	7.05	+10	36.35	−5	36.05	+ 7
26	23.42	+3	58.71	−10	5.44	+4	6.77	+ 8	36.15	−2	35.98	+10
27	23.67	−1	58.69	−11	5.35	+7	6.48	+ 6	35.95	0	35.91	+11
28	23.92	−3	58.68	− 9	5.27	+8	6.19	+ 3	35.75	+3	35.83	+ 9
29	24.17	−5	58.68	− 7	5.19	+8	5.90	− 1	35.55	+5	35.74	+ 7
30	24.42	−6	58.68	− 3	5.11	+6	5.61	− 4	35.35	+6	35.65	+ 3
31	24.67	−6	58.69	+ 1	5.04	+4	5.32	− 6	35.16	+5	35.56	− 1
Aug. 1	24.92	−4	58.71	+ 4	4.97	0	5.03	− 7	34.96	+4	35.46	− 4
2	25.17	−1	58.73	+ 7	4.91	−3	4.74	− 5	34.77	+1	35.35	− 6
3	25.41	+2	58.75	+ 8	4.85	−5	4.44	− 3	34.57	−1	35.23	− 7
4	25.66	+4	58.78	+ 7	4.80	−6	4.14	0	34.38	−4	35.11	− 6
5	25.90	+6	58.82	+ 4	4.75	−7	3.84	+ 4	34.19	−6	34.98	− 4
6	26.15	+6	58.86	+ 1	4.71	−5	3.54	+ 6	34.00	−6	34.85	− 1
7	26.39	+6	58.91	− 2	{4.67 4.63	−3 0	3.24 2.94	+ 7 + 7	33.81	−5	34.72	+ 2
8	26.64	+3	58.97	− 5	4.60	+3	2.64	+ 5	33.63	−3	34.59	+ 4
9	26.88	+1	59.03	− 6	4.57	+5	2.33	+ 1	33.45	−1	34.45	+ 6
10	27.12	−3	59.09	− 6	4.55	+6	2.03	− 2	33.27	+2	34.30	+ 5
sec δ, tg δ	+11.95		−11.91		+12.25		−12.21		+10.75		−10.70	

1913	Octantis 20 G. 7^m.				Octantis 26 G. 6^m–7^m.				χ Octantis. 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in 0.01 s	−87° 48′	in 0.01″	$16^h 28^m$	in 0.01 s	−86° 12′	in 0.01″	$18^h 4^m$	in 0.01 s	−87° 40′	in 0.01″
Juli 4	46.76 s	+12	21.06″	+ 1	39.02 s	+ 6	50.41″	+ 4	41.28 s	+ 7	5.15″	+6
5	46.36	+10	21.26	− 3	38.91	+ 7	50.69	0	41.30	+10	5.45	+2
6	45.96	+ 6	21.46	− 6	38.80	+ 6	50.97	− 4	41.31	+11	5.76	−3
7	45.55	0	21.65	− 8	38.68	+ 3	51.24	− 7	41.32	+10	6.06	−6
8	45.14	− 6	21.83	− 8	38.56	0	51.51	− 9	41.31	+ 6	6.37	−8
9	44.72	−11	22.01	− 7	38.43	− 3	51.77	− 8	41.29	+ 1	6.67	−9
10	44.30	−13	22.19	− 4	38.29	− 5	52.03	− 6	41.26	− 4	6.97	−8
11	43.87	−12	22.36	0	38.15	− 6	52.29	− 3	41.23	− 8	7.27	−5
12	43.44	− 9	22.52	+ 3	38.00	− 6	52.54	0	41.18	− 9	7.57	−2
13	43.00	− 4	22.68	+ 5	37.85	− 4	52.79	+ 4	41.13	− 9	7.87	+2
14	42.56	+ 3	22.84	+ 6	37.70	− 1	53.04	+ 7	41.07	− 5	8.17	+6
15	42.11	+10	22.99	+ 6	37.54	+ 3	53.29	+ 8	41.00	0	8.46	+8
16	41.66	+14	23.13	+ 4	37.28	+ 6	53.53	+ 7	40.91	+ 5	8.76	+9
17	41.20	+17	23.27	+ 1	37.11	+ 9	53.77	+ 4	40.82	+11	9.05	+8
18	40.74	+16	23.41	− 3	36.94	+10	54.01	+ 1	40.72	+14	9.35	+5
19	40.27	+13	23.54	− 6	36.86	+ 9	54.25	− 3	40.61	+16	9.64	+1
20	39.80	+ 7	23.66	− 8	36.68	+ 7	54.48	− 6	40.49	+14	9.93	−3
21	39.33	− 1	23.78	− 9	36.49	+ 3	54.71	− 8	40.36	+10	10.22	−6
22	38.85	− 8	23.90	− 7	36.30	− 1	54.93	− 9	40.22	+ 4	10.51	−8
23	38.37	−13	24.01	− 5	36.10	− 5	55.15	− 7	40.08	− 3	10.79	−9
24	37.89	−16	24.11	− 1	35.90	− 8	55.36	− 4	39.92	−10	11.07	−7
25	37.40	−16	24.21	+ 4	35.70	−10	55.57	− 1	39.75	−15	11.35	−4
26	36.91	−13	24.30	+ 7	35.49	−10	55.77	+ 3	39.58	−17	11.63	0
27	36.42	− 7	24.39	+10	35.28	− 8	55.97	+ 7	39.40	−16	11.90	+4
28	35.93	− 1	24.47	+10	35.06	− 5	56.16	+ 9	39.21	−13	12.17	+7
29	35.43	+ 5	24.54	+ 9	34.84	− 1	56.35	+10	39.01	− 8	12.44	+8
30	34.93	+10	24.61	+ 7	34.62	+ 2	56.54	+ 8	38.81	− 1	12.71	+9
31	34.43	+12	24.68	+ 3	34.39	+ 5	56.72	+ 5	38.59	+ 5	12.97	+7
Aug. 1	33.93	+11	24.74	− 1	34.16	+ 6	56.90	+ 1	38.36	+ 9	13.23	+4
2	33.42	+ 8	24.79	− 5	33.92	+ 6	57.07	− 3	38.13	+11	13.49	0
3	32.91	+ 3	24.83	− 7	33.68	+ 4	57.24	− 6	37.89	+10	13.74	−4
4	32.40	− 3	24.87	− 8	33.44	+ 1	57.40	− 8	37.64	+ 7	13.99	−7
5	31.89	− 9	24.90	− 7	33.19	− 2	57.56	− 9	37.38	+ 3	14.24	−9
6	31.38	−12	24.93	− 5	32.94	− 4	57.71	− 7	37.11	− 2	14.48	−8
7	30.87	−13	24.95	− 2	32.69	− 6	57.86	− 4	36.84	− 7	14.72	−6
8	30.35	−11	24.97	+ 2	32.44	− 7	58.00	− 1	36.56	− 9	14.96	−3
9	29.84	− 6	24.98	+ 5	32.18	− 5	58.14	+ 3	36.27	− 9	15.19	+1
10	29.33	0	24.99	+ 6	31.92	− 2	58.27	+ 6	35.97	− 7	15.42	+5
sec δ, tg δ	+26.13		−26.11		+15.15		−15.12		+24.59		−24.57	

1913	σ Octantis 6^m^.				β Octantis. 4^m^–5^m^.				τ Octantis. 6^m^.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 24^m$	in 0.01^s	$-89° 13'$	in $0.01''$	$22^h 37^m$	in 0.01^s	$-81° 49'$	in $0.01''$	$23^h 16^m$	in 0.01^s	$-87° 57'$	in $0.01''$
Juli 4	$6.^s14$	+11	$58.''51$	+7	$26.^s12$	−2	$53.''22$	+ 6	$3.^s89$	− 8	$9.''48$	+ 5
5	6.71	+26	58.80	+4	26.27	0	53.31	+ 6	4.47	0	9.54	+ 6
6	7.24	+35	59.09	0	26.42	+2	53.40	+ 5	5.05	+ 8	9.60	+ 6
7	7.75	+36	59.38	−4	26.57	+3	53.50	+ 3	5.63	+13	9.67	+ 4
8	8.24	+29	59.68	−7	26.71	+4	53.61	0	6.20	+16	9.74	+ 1
9	8.70	+17	59.97	−8	26.85	+4	53.72	− 3	6.77	+16	9.82	− 2
10	9.12	+ 1	60.27	−8	26.99	+3	53.83	− 5	7.33	+13	9.90	− 4
11	9.52	−14	60.56	−6	27.13	+1	53.95	− 6	7.89	+ 6	9.99	− 5
12	9.89	−25	60.86	−3	27.27	−1	54.08	− 6	8.44	− 1	10.08	− 6
13	10.23	−29	61.16	+1	27.41	−2	54.21	− 4	8.99	− 8	10.18	− 4
14	10.54	−25	61.46	+5	27.54	−3	54.34	0	9.54	−13	10.28	− 1
15	10.82	−14	61.76	+8	27.67	−4	54.48	+ 4	10.08	−16	10.39	+ 2
16	11.08	+ 1	62.06	+9	27.80	−3	54.63	+ 7	10.62	−15	10.50	+ 6
17	11.31	+19	62.36	+9	27.93	−2	54.78	+ 9	11.15	−10	10.62	+ 8
18	11.50	+34	62.66	+7	28.06	0	54.93	+10	11.68	− 4	10.75	+10
19	11.67	+43	62.96	+4	28.19	+2	55.09	+ 9	12.20	+ 4	10.88	+ 9
20	11.81	+45	63.26	0	28.31	+3	55.25	+ 6	12.71	+10	11.02	+ 7
21	11.92	+39	63.56	−4	28.43	+4	55.42	+ 2	13.22	+15	11.16	+ 4
22	12.00	+23	63.87	−7	28.55	+4	55.59	− 2	13.72	+16	11.30	0
23	12.05	+ 3	64.18	−9	28.67	+3	55.77	− 6	14.22	+15	11.45	− 5
24	12.07	−18	64.48	−9	28.79	+2	55.95	− 9	14.71	+10	11.61	− 8
25	12.06	−36	64.78	−7	28.90	0	56.13	−10	15.19	+ 3	11.77	−10
26	12.03	−48	65.08	−3	29.01	−2	56.32	− 9	15.67	− 5	11.93	−10
27	11.97	−53	65.38	0	29.12	−3	56.51	− 7	16.14	−12	12.10	− 8
28	11.87	−47	65.68	+4	29.23	−4	56.71	− 4	16.61	−16	12.27	− 6
29	11.74	−35	65.98	+7	29.34	−4	56.91	0	17.07	−18	12.45	− 2
30	11.59	−17	66.27	+8	29.44	−4	57.12	+ 3	17.52	−15	12.63	+ 2
31	11.41	+ 3	66.57	+7	29.54	−2	57.33	+ 5	17.96	−10	12.82	+ 5
Aug. 1	11.19	+20	66.87	+5	29.64	0	57.54	+ 7	18.40	− 3	13.01	+ 6
2	10.95	+32	67.17	+2	29.74	+2	57.76	+ 6	18.83	+ 5	13.21	+ 6
3	10.68	+36	67.46	−2	29.84	+3	57.98	+ 4	19.25	+11	13.41	+ 5
4	10.38	+32	67.75	−6	29.93	+4	58.21	+ 1	19.66	+16	13.62	+ 2
5	10.05	+22	68.04	−8	30.02	+4	58.44	− 2	20.07	+17	13.83	− 1
6	9.69	+ 7	68.33	−8	30.11	+3	58.67	− 5	20.47	+14	14.04	− 3
7	9.31	− 9	68.62	−7	30.20	+2	58.90	− 6	20.86	+ 9	14.26	− 5
8	8.90	−22	68.91	−5	30.28	0	59.14	− 6	21.24	+ 2	14.48	− 6
9	8.45	−28	69.19	−1	30.36	−2	59.38	− 5	21.61	− 5	14.71	− 5
10	7.98	−28	69.48	+3	30.44	−3	59.63	− 2	21.97	−11	14.94	− 3
sec δ, tg δ	+74.85		−74.84		+7.04		−6.97		+28.00		−27.98	

1913	Octantis 4 G. 6^m.				ζ Octantis 6^m-5^m.				ι Octantis 6^m-5^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in ^{s} 0.01	−85° 11′	in ″ 0.01	$9^h 9^m$	in ^{s} 0.01	−85° 18′	in ″ 0.01	$12^h 45^m$	in ^{s} 0.01	−84° 39′	in ″ 0.01
Aug. 10	27.12	−3	59.09	−6	4.55	+6	62.03	−2	33.27	+2	34.30	+5
11	27.36	−6	59.16	−4	4.54	+5	61.72	−6	33.09	+5	34.15	+4
12	27.60	−7	59.24	−1	4.53	+3	61.42	−9	32.92	+6	33.99	+1
13	27.84	−8	59.32	+2	4.52	0	61.11	−10	32.75	+7	33.83	−3
14	28.08	−7	59.41	+6	4.52	−3	60.81	−9	32.58	+6	33.66	−6
15	28.31	−4	59.50	+8	4.52	−5	60.50	−7	32.41	+4	33.49	−8
16	28.54	−1	59.60	+9	4.53	−7	60.20	−3	32.24	+1	33.31	−9
17	28.77	+2	59.71	+8	4.54	−7	59.89	+1	32.07	−2	33.13	−9
18	29.00	+5	59.82	+6	4.56	−6	59.59	+5	31.91	−4	32.94	−6
19	29.22	+7	59.94	+2	4.58	−3	59.28	+8	31.75	−6	32.75	−2
20	29.44	+7	60.07	−2	4.61	0	58.98	+9	31.59	−6	32.55	+2
21	29.66	+6	60.20	−6	4.64	+3	58.67	+9	31.44	−5	32.35	+6
22	29.88	+4	60.33	−9	4.67	+6	58.37	+7	31.29	−3	32.14	+9
23	30.10	+1	60.47	−10	4.71	+8	58.07	+4	31.14	−1	31.93	+10
24	30.32	−2	60.62	−10	4.76	+8	57.76	0	30.99	+2	31.72	+10
25	30.53	−4	60.77	−8	4.81	+7	57.46	−3	30.85	+4	31.50	+8
26	30.74	−6	60.92	−5	4.87	+5	57.16	−6	30.71	+6	31.28	+5
27	30.95	−6	61.08	−1	4.93	+2	56.86	−7	30.57	+6	31.05	+1
28	31.15	−5	61.25	+3	4.99	−2	56.56	−6	30.43	+5	30.82	−3
29	31.35	−2	61.42	+6	5.06	−4	56.26	−4	30.30	+2	30.58	−5
30	31.55	+1	61.59	+7	5.13	−6	55.97	−1	30.17	0	30.34	−7
31	31.75	+3	61.77	+7	5.21	−7	55.68	+2	30.04	−3	30.10	−6
Sept. 1	31.94	+6	61.96	+5	5.29	−6	55.39	+5	29.92	−5	29.86	−5
2	32.13	+7	62.15	+3	5.38	−4	55.10	+7	29.80	−6	29.61	−2
3	32.32	+6	62.34	−1	5.47	−1	54.82	+7	29.68	−6	29.36	+1
4	32.51	+4	62.54	−4	5.57	+2	54.54	+6	29.57	−4	29.11	+4
5	32.69	+2	62.75	−6	5.67	+4	54.26	+3	29.46	−2	28.86	+5
6	32.87	−2	62.96	−6	5.78	+5	53.98	−1	29.36	+1	28.60	+6
7	33.04	−5	63.17	−5	5.89	+5	53.70	−5	29.26	+4	28.34	+5
8	33.21	−7	63.38	−2	6.00	+4	53.43	−8	29.16	+6	28.07	+2
9	33.38	−8	63.61	+1	6.12	+1	53.16	−10	29.06	+7	27.80	−1
10	33.54	−7	63.84	+4	6.25	−2	52.89	−10	28.97	+6	27.53	−5
11	33.70	−5	64.07	+7	6.38	−4	52.62	−8	28.88	+5	27.26	−8
12	33.86	−2	64.31	+9	6.51	−6	52.36	−5	28.80	+2	26.98	−9
13	34.01	+1	64.55	+9	6.65	−7	52.10	−1	28.72	−1	26.70	−9
14	34.16	+4	64.79	+7	6.79	−7	51.84	+3	28.65	−3	26.42	−7
15	34.31	+6	65.04	+4	6.93	−5	51.59	+7	28.58	−5	26.14	−4
16	34.45	+7	65.29	0	7.08	−2	51.34	+9	28.51	−6	25.86	0
sec δ, tg δ	+11.95		−11.91		+12.25		−12.20		+10.74		−10.70	

1913	Octantis 20 G. 7^m.				Octantis 26 G. $6^m - 7^m$.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in 0.01^s	$-87° 48'$	in $0.01''$	$16^h 28^m$	in 0.01^s	$-86° 12'$	in $0.01''$	$18^h 4^m$	in 0.01^s	$-87° 40'$	in $0.01''$
Aug. 10	29.33	0	24.99	+6	31.92	−2	58.27	+6	35.97	−7	15.42	+5
11	28.81	+7	24.99	+6	31.66	+1	58.40	+7	35.67	−3	15.65	+7
12	28.30	+13	24.98	+5	31.40	+5	58.52	+7	35.36	+3	15.88	+9
13	27.79	+16	24.97	+2	31.13	+8	58.64	+6	35.04	+9	16.10	+8
14	27.27	+17	24.95	−2	30.86	+10	58.75	+3	34.71	+13	16.32	+6
15	26.76	+14	24.93	−5	30.59	+10	58.86	−1	34.38	+16	16.53	+3
16	26.25	+9	24.90	−8	30.31	+8	58.96	−5	34.04	+15	16.74	−1
17	25.74	+3	24.86	−9	30.03	+5	59.06	−8	33.69	+12	16.94	−5
18	25.22	−5	24.82	−8	29.75	+1	59.15	−9	33.33	+6	17.14	−8
19	24.71	−11	24.77	−6	29.47	−3	59.23	−8	32.97	0	17.34	−9
20	24.20	−15	24.72	−2	29.19	−7	59.31	−6	32.60	−7	17.53	−8
21	23.69	−16	24.66	+2	28.91	−9	59.38	−2	32.23	−13	17.71	−6
22	23.18	−14	24.60	+6	28.62	−10	59.45	+2	31.85	−16	17.89	−2
23	22.68	−10	24.53	+9	28.33	−9	59.51	+6	31.46	−17	18.07	+2
24	22.18	−3	24.45	+10	28.04	−6	59.57	+8	31.06	−14	18.25	+6
25	21.68	+3	24.37	+10	27.75	−3	59.62	+10	30.66	−10	18.42	+8
26	21.19	+8	24.28	+8	27.46	+1	59.66	+9	30.25	−4	18.58	+9
27	20.70	+11	24.19	+4	27.17	+4	59.70	+7	29.84	+2	18.74	+8
28	20.21	+12	24.09	0	26.88	+6	59.73	+3	29.43	+7	18.90	+5
29	19.72	+9	23.98	−3	26.59	+6	59.75	−1	29.01	+10	19.05	+1
30	19.24	+5	23.87	−6	26.30	+5	59.77	−5	28.58	+11	19.19	−3
31	18.76	−1	23.76	−8	26.00	+2	59.79	−8	28.15	+8	19.33	−6
Sept. 1	18.28	−7	23.64	−8	25.70	−1	59.80	−9	27.72	+5	19.46	−8
2	17.81	−11	23.51	−6	25.40	−3	59.81	−8	27.28	0	19.59	−9
3	17.34	−13	23.38	−3	25.10	−6	59.81	−6	26.83	−5	19.71	−7
4	16.88	−12	23.24	+1	24.80	−7	59.80	−2	26.38	−8	19.83	−4
5	16.42	−8	23.10	+4	24.50	−6	59.79	+2	25.93	−10	19.94	−1
6	15.97	−3	22.95	+6	24.21	−4	59.77	+5	25.47	−8	20.04	+3
7	15.52	+4	22.79	+6	23.91	0	59.74	+7	25.01	−5	20.14	+6
8	15.08	+11	22.63	+5	23.61	+4	59.71	+8	24.55	+1	20.24	+8
9	14.64	+15	22.47	+3	23.31	+7	59.68	+6	24.08	+7	20.33	+9
10	14.21	+17	22.30	0	23.02	+9	59.64	+4	23.61	+12	20.41	+7
11	13.78	+16	22.13	−4	22.72	+10	59.59	0	23.14	+15	20.49	+4
12	13.36	+12	21.95	−7	22.43	+9	59.54	−4	22.66	+16	20.56	0
13	12.95	+6	21.77	−9	22.13	+6	59.48	−7	22.18	+14	20.63	−4
14	12.54	+2	21.58	−9	21.84	+3	59.41	−8	21.70	+9	20.69	−7
15	12.14	−9	21.39	−7	21.55	−2	59.34	−9	21.22	+3	20.74	−9
16	11.74	−14	21.19	−5	21.26	−6	59.27	−8	20.73	−4	20.79	−9
sec δ, tg δ	+26.13		−26.11		+15.16		−15.12		+24.62		−24.60	

1913	σ Octantis 6m.				β Octantis 4m–5m.				τ Octantis 6m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 23^m$	in s 0.01	−89° 14′	in ″ 0.01	$22^h 37^m$	in s 0.01	−81° 49′	in ″ 0.01	$23^h 16^m$	in s 0.01	−87° 57′	in ″ 0.01
Aug. 10	67.98	−28	9.48	+ 3	30.44	−3	59.63	− 2	21.97	−11	14.94	− 3
11	67.48	−19	9.76	+ 7	30.51	−4	59.88	+ 2	22.33	−15	15.17	+ 1
12	66.95	− 4	10.04	+ 9	30.58	−3	60.13	+ 6	22.67	−15	15.41	+ 4
13	66.39	+13	10.31	+10	30.65	−2	60.38	+ 8	23.01	−12	15.65	+ 7
14	65.81	+29	10.59	+ 8	30.72	−1	60.64	+10	23.34	− 7	15.89	+ 9
15	65.20	+41	10.86	+ 5	30.79	+1	60.90	+ 9	23.66	+ 1	16.14	+10
16	64.57	+46	11.13	+ 1	30.85	+3	61.16	+ 7	23.97	+ 8	16.39	+ 8
17	63.90	+42	11.40	− 3	30.91	+4	61.42	+ 4	24.27	+13	16.64	+ 5
18	63.21	+30	11.67	− 6	30.97	+4	61.69	0	24.56	+16	16.89	+ 1
19	62.50	+12	11.93	− 8	31.02	+4	61.96	− 4	24.84	+16	17.15	− 3
20	61.76	− 9	12.19	− 9	31.07	+3	62.23	− 8	25.11	+12	17.41	− 7
21	60.99	−29	12.45	− 7	31.12	+1	62.50	−10	25.37	+ 6	17.68	− 9
22	60.20	−44	12.70	− 5	31.17	−1	62.77	−10	25.62	− 2	17.95	−10
23	59.38	−52	12.95	− 1	31.21	−3	63.05	− 8	25.86	− 9	18.22	− 9
24	58.53	−50	13.20	+ 3	31.25	−4	63.33	− 5	26.09	−15	18.49	− 7
25	57.66	−41	13.44	+ 6	31.29	−4	63.61	− 2	26.31	−17	18.77	− 3
26	56.77	−24	13.68	+ 7	31.33	−4	63.89	+ 2	26.52	−17	19.05	0
27	55.85	− 5	13.91	+ 8	31.36	−3	64.18	+ 5	26.72	−13	19.33	+ 4
28	54.91	+14	14.14	+ 6	31.39	−1	64.46	+ 6	26.91	− 6	19.61	+ 6
29	53.94	+28	14.37	+ 3	31.42	+1	64.75	+ 6	27.09	+ 2	19.90	+ 6
30	52.95	+35	14.60	− 1	31.44	+3	65.04	+ 5	27.26	+ 9	20.18	+ 5
31	51.93	+34	14.82	− 4	31.46	+4	65.33	+ 2	27.42	+14	20.47	+ 3
Sept. 1	50.89	+25	15.04	− 7	31.48	+4	65.62	− 1	27.56	+17	20.76	0
2	49.83	+12	15.25	− 8	31.50	+4	65.91	− 4	27.70	+16	21.05	− 3
3	48.75	− 4	15.46	− 8	31.51	+2	66.20	− 6	27.82	+11	21.34	− 5
4	47.65	−17	15.66	− 6	31.52	+1	66.50	− 6	27.94	+ 5	21.64	− 6
5	46.53	−27	15.86	− 2	31.53	−1	66.79	− 5	28.04	− 3	21.93	− 6
6	45.39	−29	16.06	+ 2	31.53	−3	67.09	− 3	28.14	− 9	22.23	− 4
7	44.23	−23	16.25	+ 6	31.53	−4	67.38	0	28.22	−14	22.53	− 1
8	43.04	−11	16.44	+ 8	31.53	−4	67.68	+ 4	28.29	−16	22.83	+ 3
9	41.84	+ 6	16.62	+ 9	31.53	−3	67.97	+ 7	28.34	−14	23.13	+ 6
10	40.61	+23	16.80	+ 9	31.52	−2	68.27	+ 9	28.39	− 9	23.43	+ 9
11	39.37	+38	16.97	+ 6	31.51	0	68.56	+10	28.42	− 2	23.73	+10
12	38.11	+46	17.14	+ 3	31.50	+2	68.85	+ 9	28.45	+ 5	24.04	+ 9
13	36.83	+45	17.30	− 1	31.48	+3	69.15	+ 6	28.46	+12	24.34	+ 7
14	35.54	+37	17.46	− 5	31.46	+4	69.44	+ 2	28.46	+16	24.64	+ 3
15	34.23	+15	17.61	− 8	31.44	+4	69.73	− 2	28.45	+17	24.95	− 1
16	32.91	0	17.76	− 9	31.42	+3	70.02	− 6	28.43	+14	25.25	− 5
sec δ, tg δ	+75.12		−75.11		+7.04		−6.97		+28.03		−28.01	

1913	Octantis 4 G. 6^m.				ζ Octantis 6^m–5^m.				ι Octantis 6^m–5^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h 42^m	in 0.01^s	−85° 12′	in 0.01″	9^h 9^m	in 0.01^s	−85° 18′	in 0.01″	12^h 45^m	in 0.01^s	−84° 39′	in 0.01″
	s		″		s		″		s		″	
Sept. 16	34.45	+7	5.29	0	7.08	−2	51.34	+ 9	28.51	−6	25.86	0
17	34.59	+7	5.55	− 4	7.24	+2	51.10	+ 9	28.44	−6	25.57	+ 4
18	34.72	+5	5.81	− 8	7.40	+5	50.86	+ 8	28.38	−4	25.28	+ 8
19	34.85	+2	6.07	−10	7.56	+7	50.62	+ 5	28.33	−2	24.99	+10
20	34.97	−1	6.33	−10	7.72	+8	50.38	+ 2	28.28	+1	24.69	+10
21	35.09	−4	6.60	− 9	7.89	+8	50.15	− 2	28.23	+4	24.39	+ 9
22	35.21	−5	6.87	− 6	8.06	+6	49.93	− 5	28.19	+5	24.10	+ 6
23	35.32	−6	7.14	− 2	8.24	+3	49.71	− 6	28.15	+6	23.80	+ 2
24	35.43	−5	7.42	+ 2	8.42	0	49.49	− 6	28.11	+5	23.50	− 1
25	35.53	−3	7.70	+ 5	8.61	−3	49.28	− 5	28.08	+3	23.20	− 4
26	35.63	−1	7.98	+ 7	8.80	−5	49.07	− 2	28.06	+1	22.90	− 6
27	35.72	+2	8.26	+ 7	8.99	−6	48.86	+ 1	28.04	−2	22.60	− 7
28	35.81	+5	8.55	+ 6	9.18	−6	48.66	+ 4	28.02	−4	22.30	− 6
29	35.89	+6	8.84	+ 4	9.38	−4	48.46	+ 7	28.01	−6	21.99	− 3
30	35.97	+6	9.13	0	9.58	−2	48.27	+ 8	28.00	−6	21.69	0
Okt. 1	36.05	+5	9.43	− 3	9.79	+1	48.08	+ 7	28.00	−5	21.38	+ 3
2	36.12	+3	9.73	− 5	10.00	+3	47.90	+ 4	28.00	−3	21.08	+ 5
3	36.19	0	10.03	− 6	10.21	+5	47.73	+ 1	28.00	0	20.78	+ 6
4	36.25	−3	10.33	− 6	10.42	+6	47.56	− 3	28.01	+3	20.47	+ 5
5	36.31	−6	10.63	− 3	10.64	+4	47.39	− 7	{28.03 28.05	+5 +6	20.17 19.86	+ 3 0
6	36.36	−8	10.94	0	10.86	+2	47.23	− 9	28.07	+7	19.56	− 4
7	36.41	−8	11.24	+ 3	11.08	0	47.08	−10	28.10	+5	19.25	− 7
8	36.45	−6	11.55	+ 6	11.30	−3	46.93	− 9	28.13	+3	18.95	− 9
9	36.49	−4	11.86	+ 9	11.53	−6	46.78	− 7	28.16	0	18.65	−10
10	36.52	0	12.17	+ 9	11.76	−7	46.64	− 3	28.20	−3	18.35	− 9
11	36.55	+3	12.48	+ 8	11.99	−7	46.51	+ 2	28.25	−5	18.05	− 6
12	36.57	+6	12.79	+ 5	12.23	−6	46.38	+ 6	28.30	−6	17.75	− 2
13	36.59	+7	13.10	+ 2	12.47	−3	46.26	+ 8	28.35	−6	17.45	+ 2
14	36.60	+7	13.41	− 2	12.71	0	46.15	+ 9	28.41	−5	17.16	+ 6
15	36.61	+6	13.72	− 6	12.95	+4	46.05	+ 9	28.48	−3	16.86	+ 9
16	36.62	+3	14.03	− 9	13.20	+6	45.95	+ 6	28.55	0	16.57	+10
17	36.62	0	14.34	−10	13.45	+8	45.85	+ 3	28.62	+3	16.28	+ 9
18	36.61	−3	14.66	−10	13.70	+8	45.76	− 1	28.69	+5	15.99	+ 7
19	36.60	−5	14.98	− 7	13.95	+7	45.68	− 4	28.77	+6	15.70	+ 4
20	36.58	−6	15.29	− 4	14.20	+4	45.60	− 6	28.86	+5	15.42	0
21	36.56	−6	15.61	0	14.45	+1	45.52	− 7	28.95	+4	15.14	− 3
22	36.53	−4	15.92	+ 4	14.71	−2	45.45	− 6	29.04	+2	14.86	− 6
23	36.50	−2	16.24	+ 6	14.97	−5	45.39	− 3	29.14	−1	14.58	− 7
sec δ, tg δ	+11.96		−11.91		+12.24		−12.20		+10.74		−10.69	

1913	Octantis 20 G. 7ᵐ.				Octantis 26 G. 6ᵐ–7ᵐ.				χ Octantis 6ᵐ.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in ^{s} 0.01	$-87° 48'$	in $''$ 0.01	$16^h 28^m$	in ^{s} 0.01	$-86° 12'$	in $''$ 0.01	$18^h 4^m$	in ^{s} 0.01	$-87° 40'$	in $''$ 0.01
Sept. 16	^{s} 11.74	−14	$''$ 21.19	−5	^{s} 21.26	−6	$''$ 59.27	−8	^{s} 20.73	−4	$''$ 20.79	−9
17	11.35	−16	20.99	0	20.97	−9	59.19	−4	20.24	−10	20.84	−7
18	10.97	−15	20.79	+5	20.68	−10	59.10	0	19.75	−15	20.88	−3
19	10.59	−11	20.58	+8	20.39	−9	59.00	+4	19.26	−17	20.91	0
20	10.22	−6	20.36	+10	20.11	−7	58.90	+7	18.77	−16	20.93	+4
21	9.86	0	20.14	+10	19.83	−4	58.80	+8	18.28	−12	20.95	+7
22	9.51	+6	19.91	+9	19.55	0	58.69	+10	17.79	−6	20.96	+9
23	9.17	+10	19.68	+6	19.27	+3	58.57	+8	17.29	0	20.97	+8
24	8.83	+12	19.45	+2	18.99	+5	58.45	+5	16.80	+5	20.97	+6
25	8.50	+10	19.21	−2	18.72	+6	58.32	+1	16.30	+9	20.97	+3
26	8.18	+6	18.97	−5	18.45	+5	58.18	−3	15.81	+10	20.96	−1
27	7.87	+1	18.73	−7	18.18	+3	58.04	−7	15.31	+9	20.94	−5
28	7.56	−5	18.48	−8	17.91	+1	57.90	−8	14.82	+6	20.92	−8
29	7.26	−10	18.23	−7	17.65	−3	57.75	−8	14.32	+1	20.89	−9
30	6.97	−13	17.97	−4	17.39	−5	57.59	−7	13.83	−4	20.85	−8
Okt. 1	6.69	−13	17.71	−1	17.13	−6	57.43	−4	13.33	−7	20.81	−6
2	6.42	−10	17.45	+3	16.88	−6	57.27	0	12.84	−10	20.76	−2
3	6.16	−5	17.19	+5	16.63	−5	57.10	+4	12.35	−9	20.71	+2
4	5.91	+2	16.92	+6	16.38	−2	56.92	+6	11.86	−6	20.65	+5
5	5.67	+8	16.65	+6	16.14	+2	56.74	+7	11.37	−1	20.58	+8
6	5.43	+14	16.38	+4	15.90	+6	56.56	+7	10.88	+4	20.51	+9
7	5.20	+17	16.10	+1	15.66	+9	56.37	+5	10.40	+10	20.44	+8
8	4.99	+17	15.82	−3	15.43	+10	56.17	+2	9.92	+14	20.35	+5
9	4.79	+14	15.54	−6	15.20	+10	55.97	−2	9.44	+16	20.26	+2
10	4.59	+9	15.26	−8	14.97	+8	55.77	−6	8.96	+15	20.17	−2
11	4.40	+2	14.97	−9	14.75	+4	55.56	−8	8.49	+11	20.07	−6
12	4.23	−6	14.68	−8	14.53	0	55.34	−9	8.02	+5	19.96	−8
13	4.07	−12	14.39	−6	14.32	−4	55.12	−8	7.56	−2	19.85	−9
14	3.92	−15	14.10	−2	14.11	−7	54.90	−5	7.10	−8	19.73	−8
15	3.77	−16	13.80	+3	13.91	−9	54.68	−1	6.64	−13	19.61	−5
16	3.64	−13	13.50	+6	13.71	−10	54.45	+3	6.19	−16	19.48	−1
17	3.52	−8	13.20	+9	13.52	−8	54.22	+6	5.74	−16	19.34	+3
18	3.40	−2	12.90	+10	13.33	−5	53.98	+9	5.29	−13	19.20	+6
19	3.30	+4	12.60	+10	13.15	−2	53.74	+10	4.85	−8	19.06	+8
20	3.21	+9	12.30	+7	12.97	+2	53.49	+9	4.41	−2	18.91	+9
21	3.13	+11	12.00	+4	12.80	+5	53.24	+6	3.98	+3	18.75	+7
22	3.06	+11	11.69	0	12.63	+6	52.99	+2	3.55	+8	18.59	+4
23	3.00	+8	11.38	−4	12.46	+6	52.73	−2	3.13	+10	18.42	0
sec δ, tg δ	+26.11		−26.09		+15.15		−15.12		+24.62		−24.60	

1913	σ Octantis 6^m.				β Octantis 4^m-5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 22^m$ s	in 0.01 s	$-89° 14'$ "	in 0.01 "	$22^h 37^m$ s	in 0.01 s	$-81° 50'$ "	in 0.01 "	$23^h 16^m$ s	in 0.01 s	$-87° 57'$ "	in 0.01 "
Sept. 16	92.91	0	17.76	−9	31.42	+3	10.02	− 6	28.43	+14	25.25	− 5
17	91.57	−21	17.90	−8	31.39	+2	10.31	− 9	28.40	+ 9	25.56	− 8
18	90.21	−38	18.04	−6	31.36	0	10.60	−10	28.36	+ 1	25.86	−10
19	88.84	−49	18.17	−2	31.33	−1	10.89	− 9	28.30	− 6	26.16	−10
20	87.46	−52	18.30	+1	31.29	−4	11.17	− 6	28.24	−13	26.46	− 8
21	86.06	−45	18.42	+5	31.25	−4	11.46	− 3	28.16	−17	26.76	− 5
22	84.65	−31	18.54	+7	31.21	−4	11.74	0	28.07	−17	27.06	− 1
23	83.22	−21	18.65	+8	31.17	−3	12.02	+ 3	27.97	−14	27.36	+ 2
24	81.78	+ 6	18.75	+7	31.12	−2	12.30	+ 5	27.86	− 9	27.66	+ 5
25	80.33	+22	18.85	+4	31.07	0	12.58	+ 6	27.73	− 2	27.96	+ 6
26	78.87	+32	18.94	+1	31.02	+2	12.86	+ 5	27.60	+ 6	28.25	+ 6
27	77.40	+35	19.02	−3	30.97	+3	13.14	+ 3	27.45	+12	28.55	+ 4
28	75.93	+29	19.10	−6	30.91	+4	13.41	+ 1	27.30	+16	28.84	+ 1
29	74.44	+17	19.17	−8	30.85	+4	13.68	− 3	27.13	+16	29.13	− 2
30	72.95	+ 1	19.24	−8	30.79	+3	13.95	− 5	26.95	+13	29.42	− 4
Okt. 1	71.45	−14	19.31	−7	30.72	+1	14.22	− 6	26.76	+ 7	29.71	− 6
2	69.95	−25	19.37	−4	30.65	0	14.48	− 6	26.56	+ 1	30.00	− 6
3	68.44	−30	19.42	0	30.58	−2	14.74	− 4	26.35	− 7	30.29	− 5
4	66.92	−26	19.47	+4	30.51	−3	15.00	− 1	26.13	−12	30.57	− 2
5	65.39	−16	19.51	+7	30.44	−4	15.26	+ 3	25.89	−15	30.85	+ 2
6	63.86	0	19.54	+9	30.36	−3	15.51	+ 6	25.65	−15	31.13	+ 5
7	62.32	+17	19.57	+9	30.28	−2	15.76	+ 9	25.39	−11	31.41	+ 8
8	60.78	+34	19.59	+8	30.20	0	16.01	+10	25.13	− 5	31.68	+10
9	59.24	+44	19.60	+5	30.12	+1	16.25	+ 9	24.85	+ 2	31.95	+10
10	57.70	+47	19.61	+1	30.03	+3	16.49	+ 7	24.57	+ 9	32.22	+ 8
11	56.16	+42	19.61	−4	29.94	+4	16.72	+ 3	24.27	+14	32.49	+ 5
12	54.61	+28	19.61	−7	29.85	+4	16.95	− 1	23.97	+16	32.75	+ 1
13	53.06	+ 9	19.60	−9	29.76	+3	17.18	− 5	23.65	+15	33.01	− 3
14	51.51	−13	19.58	−9	29.66	+2	17.41	− 8	23.33	+11	33.26	− 7
15	49.96	−26	19.55	−7	29.56	0	17.63	−10	22.99	+ 4	33.51	− 9
16	48.42	−46	19.52	−4	29.46	−2	17.85	− 9	22.65	− 4	33.76	−10
17	46.88	−52	19.48	0	29.36	−3	18.06	− 8	22.29	−10	34.01	− 9
18	45.34	−49	19.44	+4	29.26	−4	18.27	− 5	21.93	−15	34.25	− 6
19	43.81	−37	19.39	+6	29.15	−4	18.47	− 1	21.55	−17	34.49	− 3
20	42.28	−20	19.34	+8	29.04	−4	18.67	+ 2	21.17	−16	34.72	+ 1
21	40.75	0	19.28	+8	28.93	−2	18.86	+ 5	20.78	−11	34.95	+ 4
22	39.23	+17	19.22	+5	28.82	−1	19.05	+ 6	20.38	− 4	35.17	+ 6
23	37.72	+29	19.15	+2	28.71	+1	19.23	+ 6	19.97	+ 3	35.39	+ 6
sec δ, tg δ	+75.28		−75.27		+7.64		−6.97		+28.07		−28.05	

1913	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in 0.01 s	−85° 12′	in 0.01″	$9^h 9^m$	in 0.01 s	−85° 18′	in 0.01″	$12^h 45^m$	in 0.01 s	−84° 39′	in 0.01″
Okt. 23	36.50	−2	16.24	+ 6	14.97	−5	45.39	− 3	29.14	−1	14.58	− 7
24	36.47	+1	16.55	+ 7	15.23	−6	45.34	0	29.24	−3	14.31	− 6
25	36.43	+4	16.86	+ 6	15.49	−7	45.29	+ 3	29.35	−5	14.04	− 4
26	36.38	+6	17.17	+ 4	15.75	−5	45.25	+ 6	29.46	−6	13.77	− 1
27	36.33	+7	17.48	+ 1	16.01	−3	45.22	+ 8	29.58	−6	13.50	+ 2
28	36.27	+6	17.79	− 2	16.27	0	45.19	+ 7	29.70	−4	13.23	+ 4
29	36.21	+4	18.10	− 4	16.53	+3	45.16	+ 5	29.82	−1	12.97	+ 6
30	36.15	+1	18.41	− 6	16.80	+5	45.14	+ 2	29.94	+1	12.71	+ 6
31	36.08	−2	18.72	− 6	17.06	+6	45.13	− 2	30.07	+4	12.46	+ 4
Nov. 1	36.00	−5	19.02	− 4	17.33	+5	45.12	− 6	30.21	+6	12.21	+ 1
2	35.92	−7	19.32	− 2	17.59	+3	45.12	− 9	30.35	+7	11.96	− 2
3	35.84	−8	19.62	+ 2	17.86	+1	45.13	−10	30.49	+6	11.71	− 6
4	35.75	−7	19.92	+ 5	18.12	−2	45.15	−10	30.64	+4	11.47	− 8
5	35.66	−5	20.21	+ 8	18.39	−5	45.18	− 8	30.79	+2	11.24	−10
6	35.56	−2	20.50	+ 9	18.66	−7	45.21	− 5	30.95	−1	11.01	− 9
7	35.46	+1	20.79	+ 9	18.93	−7	45.24	0	31.11	−4	10.78	− 7
8	35.35	+4	21.08	+ 7	19.20	−6	45.28	+ 4	31.27	−6	10.56	− 4
9	35.24	+6	21.37	+ 3	19.46	−4	45.33	+ 7	31.44	−6	10.34	+ 1
10	35.12	+7	21.65	− 1	19.73	−1	45.39	+ 9	31.61	−5	10.12	+ 5
11	35.00	+6	21.93	− 5	19.99	+2	45.45	+ 9	31.78	−3	9.91	+ 8
12	34.87	+4	22.21	− 8	20.26	+5	45.52	+ 7	31.96	−1	9.71	+10
13	34.74	+2	22.48	−10	20.52	+7	45.60	+ 4	32.14	+2	9.51	+10
14	34.61	− 1	22.75	−10	20.79	+8	45.68	+ 1	32.32	+4	9.31	+ 8
15	34.47	−4	23.02	− 8	21.05	+7	45.77	− 3	32.51	+5	9.12	+ 5
16	34.32	−6	23.28	− 5	21.31	+5	45.87	− 5	32.70	+6	8.93	+ 2
17	34.17	−6	23.54	− 2	21.57	+2	45.97	− 7	32.89	+5	8.75	− 2
18	34.02	−5	23.80	+ 2	21.83	−1	46.08	− 6	33.09	+3	8.57	− 5
19	33.87	−3	24.06	+ 5	22.09	−4	46.19	− 4	33.29	0	8.40	− 6
20	33.71	0	24.31	+ 7	22.35	−6	46.31	− 1	33.49	−3	8.24	− 6
21	33.55	+3	24.55	+ 7	22.61	−6	46.44	+ 2	33.70	−5	8.08	− 5
22	33.38	+5	24.79	+ 5	22.86	−6	46.58	+ 5	33.91	−6	7.92	− 2
23	33.21	+7	25.03	+ 3	23.11	−4	46.72	+ 7	34.12	−6	7.77	+ 1
24	33.03	+6	25.26	0	23.36	−1	46.87	+ 8	34.33	−5	7.63	+ 4
25	32.85	+5	25.49	− 3	23.61	+2	47.03	+ 6	34.55	−3	7.49	+ 5
26	32.67	+2	25.72	− 5	23.86	+4	47.19	+ 4	34.77	0	7.36	+ 6
27	32.48	−1	25.94	− 6	24.10	+5	47.35	0	34.99	+3	7.23	+ 5
28	32.29	−4	26.15	− 5	24.34	+5	47.52	− 4	35.21	+5	7.11	+ 3
29	32.10	−6	26.36	− 3	24.58	+4	47.70	− 8	35.44	+6	7.00	− 1
sec δ, tg δ	+11.97		−11.92		+12.24		−12.20		+10.73		−10.68	

1913	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in 0.01^s	$-87° 48'$	in $0.01''$	$16^h 28^m$	in 0.01^s	$-86° 12'$	in $0.01''$	$18^h 3^m$	in 0.01^s	$-87° 40'$	in $0.01''$
Okt. 23	$3.^s00$	+8	$11.''38$	−4	$12.^s46$	+6	$52.''73$	−2	$63.^s13$	+10	$18.''42$	0
24	2.95	+3	11.07	−7	12.30	+4	52.47	−5	62.71	+10	18.25	−3
25	2.91	−3	10.76	−8	12.15	+2	52.21	−8	62.30	+7	18.07	−7
26	2.89	−8	10.45	−7	12.00	−2	51.94	−9	61.89	+3	17.89	−8
27	2.88	−12	10.14	−5	11.86	−4	51.67	−7	61.50	−2	17.70	−9
28	2.88	−13	9.83	−2	11.73	−6	51.40	−5	61.11	−7	17.51	−7
29	2.89	−12	9.52	+2	11.60	−7	51.12	−1	60.73	−10	17.31	−4
30	2.91	−7	9.21	+4	11.48	−6	50.84	+2	60.35	−10	17.11	0
31	2.94	−1	8.90	+6	11.36	−3	50.56	+5	59.98	−8	16.90	+4
Nov. 1	2.99	+6	8.59	+6	11.25	+1	50.27	+7	59.61	−4	16.69	+7
2	3.05	+12	8.28	+5	11.15	+4	49.98	+8	59.25	+2	16.47	+9
3	3.11	+16	7.97	+2	11.05	+8	49.69	+6	58.90	+8	16.25	+8
4	3.18	+17	7.66	−1	10.95	+10	49.40	+3	58.56	+13	16.02	+6
5	3.26	+16	7.36	−5	10.86	+10	49.11	0	58.23	+16	15.79	+3
6	{ 3.36 3.47	+11 +4	7.05 6.74	−8 −9	10.78	+9	48.81	−4	57.90	+16	15.55	−1
7	3.59	−3	6.43	−9	10.70	+6	48.51	−7	57.58	+13	15.31	−5
8	3.72	−9	6.12	−8	10.63	+2	48.21	−9	57.27	+8	15.06	−7
9	3.87	−14	5.82	−3	10.57	−2	47.91	−8	56.97	+2	14.81	−9
10	4.03	−16	5.52	+1	10.51	−6	47.61	−6	56.68	−5	14.56	−8
11	4.19	−14	5.22	+5	10.46	−9	47.30	−3	56.39	−12	14.30	−6
12	4.37	−11	4.92	+8	10.42	−10	46.99	+1	56.11	−15	14.04	−3
13	4.56	−4	4.62	+10	10.39	−9	46.69	+5	55.84	−16	13.77	+1
14	4.75	+2	4.32	+10	10.36	−6	46.38	+8	55.58	−15	13.50	+5
15	4.96	+7	4.03	+8	10.33	−3	46.07	+9	55.33	−11	13.23	+8
16	5.18	+11	3.74	+5	10.31	0	45.76	+9	55.09	−5	12.96	+9
17	5.41	+12	3.45	+1	10.30	+3	45.45	+7	54.86	+1	12.68	+8
18	5.65	+10	3.16	−2	10.30	+5	45.14	+4	54.64	+6	12.40	+6
19	5.90	+5	2.88	−6	10.30	+6	44.83	0	54.42	+9	12.11	+2
20	6.16	−1	2.60	−7	10.31	+5	44.51	−4	54.21	+10	11.82	−2
21	6.43	−7	2.32	−7	10.33	+3	44.20	−7	54.02	+8	11.53	−6
22	6.72	−11	2.04	−6	10.35	0	43.88	−8	53.83	+4	11.24	−8
23	7.02	−13	1.76	−3	10.38	−3	43.57	−8	53.65	0	10.94	−9
24	7.33	−13	1.49	0	10.41	−6	43.25	−6	53.48	−5	10.64	−8
25	7.65	−9	1.22	+3	10.45	−7	42.94	−3	53.33	−9	10.34	−5
26	7.97	−4	0.95	+6	10.50	−6	42.62	+1	53.18	−10	10.04	−1
27	8.30	+3	0.69	+7	10.55	−4	42.31	+4	53.05	−9	9.73	+2
28	8.64	+10	0.43	+6	10.62	−1	42.00	+7	52.92	−5	9.42	+6
29	9.00	+15	0.18	+4	10.69	+3	41.69	+8	52.80	0	9.11	+8
sec δ, tg δ	+26.07		−26.05		+15.14		−15.11		+24.61		−24.59	

1913	σ Octantis 6^m.				β Octantis 4^m–5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19^h 21^m s	in s 0.01	−89° 14′ ″	in ″ 0.01	22^h 37^m s	in s 0.01	−81° 50′ ″	in ″ 0.01	23^h 16^m s	in s 0.01	−87° 57′ ″	in ″ 0.01
Okt. 23	97.72	+29	19.15	+ 2	28.71	+1	19.23	+ 6	19.97	+ 3	35.39	+ 6
24	96.21	+34	19.07	− 2	28.60	+3	19.41	+ 4	19.55	+10	35.61	+ 5
25	94.71	+31	18.98	− 5	28.48	+4	19.59	+ 1	19.12	+15	35.82	+ 2
26	93.22	+25	18.89	− 8	28.36	+4	19.76	− 2	18.69	+16	36.03	− 1
27	91.74	+ 7	18.79	− 9	28.24	+3	19.93	− 5	18.25	+15	36.23	− 4
28	90.27	− 9	18.69	− 8	28.12	+2	20.09	− 6	17.80	+10	36.43	− 6
29	88.81	−22	18.58	− 5	28.00	0	20.25	− 7	17.34	+ 3	36.63	− 7
30	87.35	−29	18.46	− 2	27.88	−2	20.40	− 5	16.88	− 4	36.82	− 6
31	85.91	−29	18.34	+ 2	27.76	−3	20.55	− 2	16.41	−11	37.00	− 3
Nov. 1	84.48	−21	18.21	+ 6	27.63	−4	20.69	+ 1	15.93	−15	37.18	0
2	83.06	− 7	18.08	+ 9	27.50	−4	20.83	+ 5	15.44	−15	37.35	+ 4
3	81.65	+11	17.94	+10	27.37	−3	20.96	+ 8	14.95	−13	37.52	+ 7
4	80.26	+28	17.79	+ 9	27.24	−1	21.08	+10	14.45	− 8	37.68	+ 9
5	78.88	+42	17.64	+ 6	27.11	+1	21.20	+10	13.94	− 1	37.84	+10
6	77.52	+47	17.48	+ 2	26.98	+2	21.31	+ 8	13.43	+ 7	37.99	+ 9
7	76.17	+46	17.32	− 2	26.85	+3	21.42	+ 5	12.91	+13	38.14	+ 7
8	74.84	+35	17.15	− 6	26.72	+4	21.52	+ 1	12.39	+16	38.28	+ 3
9	73.52	+17	16.98	− 8	26.59	+4	21.62	− 3	11.86	+16	38.42	− 2
10	72.22	− 4	16.80	− 9	26.45	+3	21.71	− 7	11.32	+13	38.55	− 6
11	70.94	−24	16.61	− 8	26.31	+1	21.79	− 9	10.78	+ 7	38.68	− 9
12	69.68	−41	16.42	− 5	26.18	−1	21.86	−10	10.23	0	38.80	−10
13	68.43	−50	16.22	− 2	26.04	−3	21.93	− 8	9.68	− 8	38.91	− 9
14	67.20	−51	16.02	+ 2	25.90	−4	22.00	− 6	9.12	−14	39.02	− 7
15	66.00	−42	15.81	+ 5	25.76	−4	22.06	− 2	8.56	−17	39.12	− 4
16	64.81	−27	15.60	+ 7	25.62	−4	22.11	+ 1	7.99	−17	39.22	0
17	63.65	− 9	15.38	+ 8	25.48	−3	22.16	+ 4	7.42	−14	39.31	+ 3
18	62.51	+ 9	15.16	+ 6	25.34	−1	22.20	+ 6	6.85	− 8	39.39	+ 5
19	61.39	+25	14.93	+ 4	25.20	0	22.24	+ 6	6.27	0	39.47	+ 6
20	60.29	+33	14.70	0	25.06	+2	22.27	+ 5	5.69	+ 8	39.54	+ 5
21	59.21	+33	14.46	− 4	24.92	+3	22.29	+ 2	5.11	+13	39.60	+ 3
22	58.15	+25	14.22	− 7	24.78	+4	22.31	− 1	4.52	+16	39.66	0
23	57.13	+13	13.98	− 8	24.63	+4	22.32	− 3	3.93	+16	39.71	− 3
24	56.13	− 3	13.73	− 8	24.49	+3	22.33	− 6	3.34	+12	39.75	− 5
25	55.14	−18	13.48	− 6	24.34	+1	22.33	− 7	2.74	+ 6	39.79	− 6
26	54.18	−28	13.22	− 3	24.20	−1	22.32	− 6	2.15	− 1	39.82	− 6
27	53.25	−30	12.95	+ 1	24.06	−2	22.30	− 4	1.55	− 8	39.85	− 4
28	52.34	−26	12.68	+ 5	23.92	−3	22.27	0	0.95	−13	39.87	− 2
29	51.46	−13	12.41	+ 8	23.78	−4	22.24	+ 4	0.35	−15	39.88	+ 2
sec δ, tg δ	+75.20		−75.19		+7.04		−6.97		+28.10		−28.09	

1913	Octantis 4 G. 6^m.				ζ Octantis $6^m - 5^m$.				ι Octantis. $6^m - 5^m$.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in ^{s} 0.01	−85° 12′	in ″ 0.01	$9^h 9^m$	in ^{s} 0.01	−85° 18′	in ″ 0.01	$12^h 45^m$	in ^{s} 0.01	−84° 39′	in ″ 0.01
Nov. 29	32.10	−6	26.36	−3	24.58	+4	47.70	−8	35.44	+6	7.00	−1
30	31.90	−8	26.57	+1	24.82	+2	47.88	−10	35.67	+6	6.89	−5
Dez. 1	31.70	−7	26.77	+4	25.06	−1	48.07	−10	35.90	+5	6.78	−8
2	31.49	−6	26.97	+7	25.29	−4	48.27	−9	36.13	+3	6.68	−9
3	31.28	−3	27.16	+9	25.52	−6	48.47	−6	36.37	0	6.59	−10
4	31.07	0	27.35	+10	25.75	−7	48.67	−2	36.61	−3	6.51	−8
5	30.86	+3	27.53	+8	25.98	−7	48.88	+2	36.85	−5	6.43	−5
6	30.64	+6	27.70	+5	26.20	−5	49.10	+6	37.09	−6	6.36	−1
7	30.42	+7	27.87	+1	26.42	−2	49.32	+8	37.33	−6	6.29	+3
8	30.20	+7	28.04	−3	26.64	+1	49.55	+9	37.57	−4	6.23	+7
9	29.98	+5	28.20	−7	26.86	+4	49.78	+8	37.82	−2	6.17	+9
10	29.75	+3	28.35	−9	27.07	+7	50.02	+6	38.07	+1	6.12	+10
11	29.52	0	28.50	−10	27.28	+8	50.27	+2	38.32	+3	6.08	+9
12	29.29	−3	28.65	−9	27.48	+8	50.52	−1	38.57	+5	6.04	+7
13	29.05	−5	28.79	−7	27.68	+7	50.77	−5	38.82	+6	6.01	+3
14	28.81	−6	28.92	−3	27.88	+4	51.03	−6	39.07	+5	5.99	0
15	28.57	−5	29.05	+1	28.07	0	51.30	−6	39.32	+4	5.97	−4
16	28.33	−4	29.17	+4	28.26	−3	51.57	−5	39.57	+1	5.96	−6
17	28.08	−1	29.28	+6	28.45	−5	51.85	−2	39.83	−2	5.95	−6
18	27.83	+2	29.39	+7	28.63	−6	52.13	+1	40.08	−4	5.95	−5
19	27.58	+5	29.49	+6	28.81	−6	52.41	+4	40.34	−6	5.96	−3
20	27.33	+6	29.59	+4	28.99	−5	52.70	+7	40.60	−6	5.98	0
21	27.07	+7	29.68	+1	29.16	−2	52.99	+8	40.86	−5	6.00	+3
22	26.81	+6	29.76	−3	29.33	+1	53.29	+7	41.11	−3	6.03	+5
23	26.55	+4	29.84	−5	29.49	+3	53.59	+5	41.37	−1	6.06	+6
24	26.29	+1	29.91	−6	29.65	+5	53.89	+2	41.63	+2	6.10	+6
25	26.03	−3	29.98	−6	29.81	+6	54.20	−3	41.89	+4	6.15	+4
26	25.77	−6	30.04	−4	29.96	+5	54.51	−6	42.15	+6	6.21	+1
27	25.51	−7	30.09	−1	30.11	+3	54.83	−9	42.41	+7	6.27	−3
28	25.25	−8	30.14	+2	30.25	0	55.15	−10	42.67	+6	6.33	−7
29	24.98	−7	30.19	+6	30.39	−3	55.47	−10	42.93	+4	6.40	−9
30	24.72	−4	30.23	+9	30.52	−5	55.80	−7	43.19	+1	6.48	−10
31	24.45	−1	30.26	+10	30.65	−7	56.13	−4	43.45	−2	6.57	−9
32	24.18	+2	30.28	+9	30.78	−8	56.46	0	43.71	−4	6.66	−7
sec δ, tg δ	+11.97		−11.93		+12.24		−12.20		+10.73		−10.68	

1913	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 44^m$	in ^{s} 0.01	−87° 47′	in $''$ 0.01	$16^h 28^m$	in ^{s} 0.01	−86° 12′	in $''$ 0.01	$18^h 3^m$	in ^{s} 0.01	−87° 39′	in $''$ 0.01
Nov. 29	$9\overset{s}{.}00$	+15	$60\overset{''}{.}18$	+ 4	$10\overset{s}{.}69$	+ 3	$41\overset{''}{.}69$	+ 8	$52\overset{s}{.}80$	0	$69\overset{''}{.}11$	+8
30	9.36	+17	59.93	0	10.77	+ 6	41.38	+ 7	52.70	+ 6	68.80	+9
Dez. 1	9.74	+17	59.68	− 4	{ 10.85 10.94	+ 9 +10	41.07 40.76	+ 4 + 1	52.61	+11	68.48	+7
2	10.13	+13	59.44	− 7	11.04	+10	40.45	− 3	52.52	+15	68.16	+5
3	10.52	+ 7	59.20	− 9	11.14	+ 8	40.14	− 6	52.45	+16	67.84	+1
4	10.92	0	58.96	− 9	11.25	+ 5	39.83	− 8	52.39	+16	67.52	−3
5	11.33	− 7	58.73	− 8	11.36	− 1	39.53	− 9	52.34	+11	67.20	−6
6	11.75	−12	58.50	− 5	11.48	− 5	39.23	− 7	52.29	+ 5	66.87	−8
7	12.18	−15	58.28	− 1	11.61	− 8	38.93	− 4	52.26	− 2	66.55	−9
8	12.61	−15	58.06	+ 3	11.75	− 9	38.63	− 1	52.24	− 9	66.22	−7
9	13.06	−12	57.84	+ 7	11.89	− 9	38.33	+ 3	52.23	−14	65.90	−4
10	13.52	− 7	57.63	+ 9	12.04	− 8	38.03	+ 7	52.23	−16	65.57	0
11	13.99	0	57.43	+10	12.20	− 4	37.74	+ 9	52.24	−16	65.24	+4
12	14.46	+ 6	57.23	+ 9	12.36	− 1	37.45	+10	52.27	−12	64.91	+7
13	14.95	+10	57.03	+ 7	12.52	+ 2	37.16	+ 8	52.30	− 7	64.58	+8
14	15.44	+12	56.84	+ 3	12.69	+ 5	36.87	+ 5	52.34	− 1	64.25	+9
15	15.94	+11	56.65	− 1	12.87	+ 6	36.58	+ 1	52.40	+ 4	63.92	+7
16	16.44	+ 7	56.47	− 4	13.05	+ 5	36.30	− 3	52.46	+ 8	63.59	+4
17	16.94	+ 2	56.29	− 6	13.24	+ 3	36.02	− 6	52.53	+10	63.26	0
18	17.46	− 5	56.12	− 7	13.44	+ 1	35.74	− 8	52.61	+ 9	62.93	−4
19	17.99	−10	55.95	− 6	13.64	− 2	35.47	− 8	52.70	+ 6	62.60	−7
20	18.52	−13	55.79	− 4	13.85	− 5	35.20	− 7	52.81	+ 1	62.27	−9
21	19.05	−14	55.63	− 1	14.06	− 7	34.93	− 4	52.93	− 4	61.94	−8
22	19.59	−11	55.48	+ 2	14.28	− 7	34.67	0	{ 53.06 53.20	− 8 −10	61.61 61.28	−6 −3
23	20.14	− 6	55.33	+ 5	14.51	− 5	34.41	+ 3	53.35	−10	60.95	+1
24	20.69	0	55.19	+ 6	14.74	− 3	34.15	+ 6	53.51	− 7	60.62	+5
25	21.25	+ 7	55.05	+ 6	14.98	+ 1	33.89	+ 7	53.68	− 3	60.29	+8
26	21.82	+13	54.92	+ 4	15.23	+ 5	33.64	+ 7	53.86	+ 3	59.96	+9
27	22.39	+17	54.80	+ 2	15.48	+ 8	33.39	+ 5	54.05	+ 9	59.63	+8
28	22.96	+17	54.68	− 2	15.73	+10	33.14	+ 2	54.25	+14	59.31	+6
29	23.54	+16	54.56	− 6	15.99	+10	32.90	− 2	54.46	+16	58.99	+2
30	24.13	+10	54.45	− 8	16.25	+ 9	32.66	− 5	54.68	+16	58.67	−1
31	24.72	+ 3	54.35	− 9	16.52	+ 5	32.43	− 8	54.91	+13	58.35	−5
32	25.32	− 6	54.25	− 9	16.79	+ 1	32.20	− 9	55.15	+ 7	58.03	−8
sec δ, tg δ	+26.04		−26.02		+15.13		−15.10		+24.58		−24.56	

1913	σ Octantis 6^m.				β Octantis 4^m–5^m.				τ Octantis 6^m.			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 21^m$ s	in s 0.01	−89° 14′ ″	in ″ 0.01	$22^h 37^m$ s	in s 0.01	−81° 50′ ″	in ″ 0.01	$23^h 15^m$ s	in s 0.01	−87° 57′ ″	in ″ 0.01
Nov. 29	51.46	−13	12.41	+ 8	23.78	−4	22.24	+ 4	60.35	−15	39.88	+ 2
30	50.60	+ 4	12.13	+10	23.64	−3	22.21	+ 7	59.75	−14	39.88	+ 6
Dez. 1	49.77	+21	11.85	+ 9	23.50	−2	22.17	+10	59.15	−10	39.88	+ 9
2	48.97	+37	11.57	+ 7	23.36	0	22.12	+10	58.55	− 3	39.87	+10
3	48.19	+47	11.28	+ 4	23.22	+2	22.07	+ 9	57.94	+ 4	39.86	+10
4	47.44	+48	10.99	0	23.08	+3	22.01	+ 7	57.34	+11	39.84	+ 8
5	46.73	+41	10.70	− 4	22.95	+4	21.95	+ 3	56.73	+15	39.82	+ 4
6	46.04	+26	10.40	− 7	22.81	+4	21.88	− 1	56.12	+17	39.79	0
7	45.38	+ 6	10.10	− 9	22.67	+3	21.80	− 5	55.52	+15	39.75	− 4
8	44.75	−16	9.79	− 8	22.53	+2	21.71	− 8	54.91	+10	39.70	− 7
9	44.14	−24	9.48	− 6	22.40	0	21.62	−10	54.31	+ 3	39.65	− 9
10	43.56	−37	9.17	− 3	22.26	−2	21.52	− 9	53.71	− 5	39.59	−10
11	43.02	−51	8.85	+ 1	22.13	−3	21.42	− 7	53.11	−12	39.53	− 8
12	42.51	−46	8.54	+ 4	22.00	−4	21.31	− 4	52.51	−16	39.46	− 5
13	42.02	−24	8.22	+ 7	21.87	−4	21.19	0	51.91	−17	39.38	− 2
14	41.56	−16	7.90	+ 8	21.74	−4	21.07	+ 3	51.31	−15	39.29	+ 2
15	41.14	+ 3	7.57	+ 7	21.61	−2	20.94	+ 5	50.72	−10	39.20	+ 4
16	40.75	+19	7.25	+ 5	21.48	0	20.80	+ 6	50.13	− 3	39.10	+ 6
17	40.38	+30	6.92	+ 1	21.35	+2	20.66	+ 5	49.54	+ 5	39.00	+ 6
18	40.04	+33	6.59	− 2	21.22	+3	20.51	+ 3	48.95	+11	38.89	+ 4
19	39.74	+29	6.26	− 6	21.09	+4	20.36	0	48.37	+15	38.77	+ 1
20	39.47	+17	5.93	− 8	20.96	+4	20.20	− 3	47.79	+16	38.65	− 2
21	39.23	+ 2	5.59	− 9	20.84	+3	20.04	− 6	47.21	+14	38.52	− 4
22	39.02	−13	5.25	− 8	20.72	+2	19.87	− 7	46.63	+ 9	38.38	− 6
23	38.84	−25	4.91	− 5	20.60	0	19.70	− 7	46.06	+ 2	38.24	− 7
24	38.69	−31	4.57	− 1	20.48	−2	19.52	− 5	45.49	− 6	38.09	− 5
25	38.58	−29	4.22	+ 3	20.36	−3	19.33	− 2	44.93	−12	37.94	− 3
26	38.50	−19	3.88	+ 7	20.24	−4	19.14	+ 2	44.37	−15	37.78	+ 1
27	38.44	− 4	3.53	+ 9	20.12	−3	18.94	+ 6	43.81	−15	37.61	+ 5
28	38.42	+15	3.19	+10	20.01	−2	18.74	+ 9	43.26	−12	37.44	+ 8
29	38.43	+32	2.84	+ 8	19.90	−1	18.53	+10	42.71	− 6	37.26	+10
30	38.47	+44	2.49	+ 5	19.79	+1	18.31	+10	42.17	+ 1	37.08	+10
31	38.54	+49	2.14	+ 1	19.68	+3	18.09	+ 8	41.63	+ 8	36.89	+ 9
32	38.64	+45	1.79	− 3	19.57	+4	17.87	+ 5	41.10	+14	36.69	+ 6
sec δ, tg δ	+74.95		−74.95		+7.05		−6.97		+28.10		−28.09	

1913	1) α Andromed. AR.		1) α Andromed. Dekl. +		2) β Cassiopej. AR.		2) β Cassiopej. Dekl. +		3) ε Phoenicis. AR.		3) ε Phoenicis. Dekl. −		7) γ Pegasi. AR.		7) γ Pegasi. Dekl. +	
	0ʰ 3ᵐ		28° 36′		0ʰ 4ᵐ		58° 40′		0ʰ 4ᵐ		46° 13′		0ʰ 8ᵐ		14° 41′	
Jan. 0	52.61 s	13	44.3 "	9	30.23 s	31	27.6 "	6	60.09 s	19	55.3 "	4	44.80 s	10	62.9 "	8
10	52.48	13	43.4	11	29.92	29	27.0	12	59.90	17	54.9	9	44.70	11	62.1	9
20	52.35	11	42.3	13	29.63	27	25.8	17	59.73	15	54.0	13	44.59	9	61.2	9
30	52.24	9	41.0	15	29.36	23	24.1	20	59.58	12	52.7	17	44.50	7	60.3	10
Febr. 9	52.15	7	39.5	15	29.13	18	22.1	24	59.46	9	51.0	21	44.43	6	59.3	10
19	52.08	3	38.0	16	28.95	12	19.7	26	59.37	5	48.9	24	44.37	2	58.3	9
März 1	52.05	0	36.4	15	28.83	5	17.1	26	59.32	1	46.5	27	44.35	0	57.4	7
11	52.05	4	34.9	14	28.78	2	14.5	27	59.31	3	43.8	29	44.35	3	56.7	6
21	52.09	10	33.5	12	28.80	12	11.8	27	59.34	10	40.9	34	44.38	9	56.1	3
31	[21] 52.19	13	32.3	8	[21] 28.92	19	9.1	22	[22] 59.44	14	37.5	32	[23] 44.47	13	55.8	0
April 10	52.32	19	31.5	5	29.11	26	6.9	19	59.58	20	34.3	31	44.60	17	55.8	2
20	52.51	22	31.0	1	29.37	34	5.0	15	59.78	24	31.2	32	44.77	20	56.0	6
30	52.73	27	30.9	3	29.71	40	3.5	10	60.02	29	28.0	31	44.97	25	56.6	9
Mai 10	53.00	30	31.2	6	30.11	44	2.5	5	60.31	33	24.9	28	45.22	27	57.5	12
20	53.30	32	31.8	11	30.55	49	2.0	0	60.64	37	22.1	27	45.49	30	58.7	15
30	53.62	35	32.9	14	31.04	52	2.0	6	61.01	39	19.4	24	45.79	32	60.2	17
Juni 9	53.97	35	34.3	17	31.56	51	2.6	11	61.40	41	17.0	20	46.11	34	61.9	20
19	54.32	36	36.0	20	32.07	52	3.7	15	61.81	42	15.0	16	46.45	33	63.9	21
29	54.68	34	38.0	22	32.59	50	5.2	20	62.23	42	13.4	12	46.78	32	66.0	21
Juli 9	55.02	33	40.2	24	33.09	47	7.2	24	62.65	39	12.2	7	47.10	31	68.1	23
19	55.35	30	42.6	26	33.56	44	9.6	27	63.04	38	11.5	2	47.41	29	70.4	22
29	55.65	27	45.2	25	34.00	38	12.3	30	63.42	34	11.3	2	47.70	26	72.6	22
Aug. 8	55.92	24	47.7	26	34.38	33	15.3	33	63.76	29	11.5	8	47.96	23	74.8	20
18	56.16	20	50.3	25	34.71	27	18.6	34	64.05	25	12.3	11	48.19	19	76.8	19
28	56.36	15	52.8	24	34.98	21	22.0	34	64.30	19	13.4	15	48.38	16	78.7	18
Sept. 7	56.51	12	55.2	23	35.19	15	25.4	35	64.49	14	14.9	19	48.54	12	80.5	15
17	56.63	7	57.5	21	35.34	9	28.9	34	64.63	7	16.8	20	48.66	7	82.0	14
27	56.70	4	59.6	19	35.43	2	32.3	33	64.70	2	18.8	23	48.73	5	83.4	11
Okt. 7	56.74	0	61.5	17	35.45	3	35.6	31	64.72	3	21.1	22	48.78	1	84.5	9
17	56.74	3	63.2	14	35.42	9	38.7	28	64.69	8	23.3	23	48.79	2	85.4	6
27	56.71	5	64.6	12	35.33	14	41.5	26	64.61	12	25.6	21	48.77	4	86.0	4
Nov. 6	56.66	8	65.8	8	35.19	19	44.1	21	64.49	15	27.7	18	48.73	6	86.4	2
16	56.58	10	66.6	6	35.00	23	46.2	17	64.34	17	29.5	15	48.67	8	86.6	0
26	56.48	11	67.2	1	34.77	26	47.9	12	64.17	19	31.0	12	48.59	9	86.6	2
Dez. 6	56.37	12	67.3	1	34.51	28	49.1	7	63.98	20	32.2	8	48.50	10	86.4	4
16	56.25	13	67.2	4	34.23	30	49.8	1	63.78	20	33.0	2	48.40	11	86.0	5
26	56.12	13	66.8	7	33.93	30	49.9	4	63.58	20	33.2	1	48.29	10	85.5	7
36	55.99		66.1		33.63		49.5		63.38		33.1		48.19		84.8	
Mittl. Ort	53.24		36.4		31.63		11.7		59.87		39.2		45.23		59.5	
sec δ, tg δ	1.139		+0.545		1.923		+1.643		1.445		−1.044		1.034		+0.262	

1913	9) ι Ceti.				10) ζ Tucanae.				11) β Hydri.				12) α Phoenicis.			
	AR.	Diff.	Dekl. —	Diff.	AR.	Diff.	Dekl. —	Diff.	AR.	Diff.	Dekl. —	Diff.	AR.	Diff.	Dekl. —	Diff.
	$0^h\ 14^m$		$9°\ 17'$		$0^h\ 15^m$		$65°\ 22'$		$0^h\ 21^m$		$77°\ 44'$		$0^h\ 21^m$		$42°\ 46'$	
Jan. 0	59.57	10	87.2	5	33.50	39	89.3	8	13.94	89	59.3	11	59.41	17	57.5	1
10	59.47	10	87.7	3	33.11	36	88.5	14	13.05	83	58.2	17	59.24	16	57.4	6
20	59.37	8	88.0	1	32.75	33	87.1	19	12.22	75	56.5	23	59.08	15	56.8	11
30	59.29	7	88.1	0	32.42	28	85.2	25	11.47	64	54.2	27	58.93	13	55.7	14
Febr. 9	59.22	5	88.1	2	32.14	21	82.7	28	10.83	53	51.5	31	58.80	10	54.3	19
19	59.17	3	87.9	4	31.93	15	79.9	32	10.30	39	48.4	34	58.70	7	52.4	21
März 1	59.14	1	87.5	6	31.78	8	76.7	34	9.91	25	45.0	37	58.63	3	50.3	25
11	59.13	4	86.9	9	31.70	1	73.3	36	9.66	10	41.3	38	58.60	2	47.8	27
21	59.17	8	86.0	13	31.69	9	69.7	41	9.56	7	37.5	43	58.62	6	45.1	32
31	[24] 59.25	11	84.7	14	[25] 31.78	16	65.6	38	[26] 9.63	23	33.2	39	[26] 58.68	12	41.9	31
April 10	59.36	16	83.3	16	31.94	25	61.8	37	9.86	38	29.3	38	58.80	16	38.8	31
20	59.52	19	81.7	18	32.19	32	58.1	35	10.24	53	25.5	36	58.96	21	35.7	31
30	59.71	23	79.9	20	32.51	40	54.6	34	10.77	67	21.9	34	59.17	26	32.6	31
Mai 10	59.94	27	77.9	21	32.91	47	51.2	31	11.44	80	18.5	31	59.43	31	29.5	30
20	60.21	29	75.8	21	33.38	53	48.1	27	12.24	91	15.4	26	59.74	34	26.5	27
30	60.50	31	73.7	22	33.91	57	45.4	24	13.15	99	12.8	22	60.08	36	23.8	25
Juni 9	60.81	32	71.5	22	34.48	60	43.0	19	14.14	106	10.6	17	60.44	39	21.3	22
19	61.13	32	69.3	21	35.08	62	41.1	14	15.20	110	8.9	12	60.83	39	19.1	18
29	61.45	33	67.2	20	35.70	61	39.7	8	16.30	111	7.7	6	61.22	40	17.3	14
Juli 9	61.78	31	65.2	17	36.31	61	38.9	3	17.41	109	7.1	0	61.62	39	15.9	10
19	62.09	29	63.5	16	36.92	57	38.6	2	18.50	103	7.1	6	62.01	37	14.9	5
29	62.38	27	61.9	13	37.49	52	38.8	8	19.53	95	7.7	11	62.38	33	14.4	0
Aug. 8	62.65	23	60.6	10	38.01	46	39.6	14	20.48	84	8.8	16	62.71	30	14.4	5
18	62.88	20	59.6	7	38.47	39	41.0	17	21.32	72	10.4	21	63.01	25	14.9	9
28	63.08	16	58.9	5	38.86	30	42.7	22	22.04	54	12.5	25	63.26	20	15.8	13
Sept. 7	63.24	12	58.4	1	39.16	21	44.9	25	22.58	36	15.0	27	63.46	15	17.1	16
17	63.36	8	58.3	1	39.37	11	47.4	27	22.94	19	17.7	29	63.61	10	18.7	19
27	63.44	5	58.4	3	39.48	1	50.1	28	23.13	1	20.6	31	63.71	5	20.6	21
Okt. 7	63.49	2	58.7	6	39.49	7	52.9	28	23.12	19	23.7	29	63.76	1	22.7	22
17	63.51	2	59.3	6	39.42	16	55.7	26	22.93	37	26.6	28	63.75	4	24.9	22
27	63.49	4	59.9	8	39.26	24	58.3	24	22.56	53	29.4	25	63.71	9	27.1	22
Nov. 6	63.45	6	60.7	9	39.02	30	60.7	21	22.03	67	31.9	21	63.62	12	29.3	19
16	63.39	8	61.6	8	38.72	35	62.8	16	21.36	78	34.0	17	63.50	15	31.2	17
26	63.31	8	62.4	8	38.37	38	64.4	12	20.58	86	35.7	11	63.35	17	32.9	13
Dez. 6	63.23	10	63.2	8	37.99	41	65.6	6	19.72	91	36.8	4	63.18	17	34.2	10
16	63.13	10	64.0	7	37.58	41	66.2	0	18.81	93	37.2	1	63.01	19	35.2	5
26	63.03	11	64.7	5	37.17	41	66.2	6	17.88	91	37.1	8	62.82	18	35.7	1
36	62.92		65.2		36.76		65.6		16.97		36.3		62.64		35.8	
Mittl. Ort	59.72		82.4		32.66		70.1		11.84		39.1		59.13		42.8	
sec δ, tg δ	1.013		—0.162		2.400		—2.182		4.708		—4.600		1.362		—0.925	

1913	13) 12 Ceti. AR.		Dekl. −		17) ζ Cassiopej. AR.		Dekl. +		18) π Andromed. AR.		Dekl. +		20) δ Andromed. AR.		Dekl. +	
	$0^h 25^m$		$4° 25'$		$0^h 32^m$		$53° 24'$		$0^h 32^m$		$33° 14'$		$0^h 34^m$		$30° 23'$	
Jan. 0	35.80		79.5		6.08		81.6		13.30		36.4		39.85		16.0	
10	35.70	10	80.0	5	5.83	25	81.2	4	13.16	14	35.7	7	39.72	13	15.3	7
20	35.60	10	80.5	5	5.58	25	80.2	10	13.01	15	34.8	9	39.58	14	14.4	9
30	35.51	9	80.8	3	5.34	24	78.9	13	12.87	14	33.6	12	39.45	13	13.2	12
Febr. 9	35.43	8	81.0	2	5.13	21	77.1	18	12.75	12	32.2	14	39.33	12	11.9	13
19	35.37	6	81.0	0	4.95	18	75.1	20	12.65	10	30.6	16	39.24	9	10.5	14
März 1	35.33	4	80.9	1	4.82	13	72.8	23	12.58	7	29.0	16	39.17	7	8.9	16
11	35.33	0	80.5	4	4.74	8	70.5	23	12.55	3	27.4	16	39.14	3	7.4	15
21	35.35	2	79.9	6	4.73	1	68.1	24	12.56	1	25.8	16	39.14	0	6.0	14
31	[27] 35.42	7	79.0	9	[29] 4.79	6	65.5	26	[29] 12.62	6	24.3	15	[30] 39.20	6	4.7	13
April 10	35.52	10	77.9	11	4.91	12	63.4	21	12.73	11	23.2	11	39.31	11	3.7	10
20	35.67	15	76.5	14	5.12	21	61.6	18	12.89	16	22.3	9	39.46	15	3.0	7
30	35.85	18	75.0	15	5.38	26	60.2	14	13.10	21	21.8	5	39.67	21	2.7	3
Mai 10	36.07	22	73.2	18	5.71	33	59.2	10	13.35	25	21.8	0	39.92	25	2.7	0
20	36.33	26	71.3	19	6.09	38	58.6	6	13.64	29	22.1	3	40.20	28	3.1	4
30	36.61	28	69.2	21	6.51	42	58.5	1	13.97	33	22.8	7	40.51	31	3.9	8
Juni 9	36.92	31	67.1	21	6.96	45	58.9	4	14.32	35	23.8	10	40.86	35	5.1	12
19	37.24	32	65.0	21	7.43	47	59.9	10	14.68	36	25.3	15	41.21	35	6.5	14
29	37.56	32	62.9	21	7.90	47	61.2	13	15.05	37	27.0	17	41.57	36	8.3	18
Juli 9	37.88	32	60.8	21	8.36	46	63.0	18	15.41	36	29.0	20	41.93	36	10.3	20
19	38.19	31	58.9	19	8.81	45	65.1	21	15.76	35	31.3	23	42.27	34	12.6	23
29	38.49	30	57.2	17	9.23	42	67.6	25	16.09	33	33.7	24	42.60	33	14.9	23
Aug. 8	38.76	27	55.7	15	9.61	38	70.4	28	16.40	31	36.2	25	42.89	29	17.4	25
18	39.00	24	54.5	12	9.95	34	73.4	30	16.67	27	38.8	26	43.16	27	19.9	25
28	39.20	20	53.5	10	10.24	29	76.5	31	16.90	23	41.4	26	43.39	23	22.4	25
Sept. 7	39.37	17	52.7	8	10.48	24	79.7	32	17.09	19	43.9	25	43.58	19	24.8	24
17	39.50	13	52.3	4	10.67	19	82.9	32	17.24	15	46.4	25	43.73	15	27.1	23
27	39.60	10	52.1	2	10.80	13	86.1	32	17.35	11	48.8	24	43.85	12	29.3	22
Okt. 7	39.66	6	52.2	1	10.88	8	89.3	32	17.43	8	50.9	21	43.92	7	31.3	20
17	39.68	2	52.5	3	10.91	3	92.2	29	17.46	3	52.9	20	43.96	4	33.1	18
27	39.68	0	52.9	4	10.88	3	95.0	28	17.46	0	54.6	17	43.97	1	34.7	16
Nov. 6	39.65	3	53.5	6	10.81	7	97.4	24	17.43	3	56.1	15	43.95	2	36.0	13
16	39.60	5	54.1	6	10.70	11	99.5	21	17.38	5	57.2	11	43.90	5	37.0	10
26	39.53	7	54.8	7	10.55	15	101.3	18	17.30	8	58.1	9	43.82	8	37.8	8
Dez. 6	39.45	8	55.6	8	10.36	19	102.6	13	17.19	11	58.6	5	43.72	10	38.2	4
16	39.36	9	56.3	7	10.15	21	103.4	8	17.07	12	58.8	2	43.61	11	38.4	2
26	39.26	10	57.0	7	9.92	23	103.7	3	16.94	13	58.7	1	43.49	12	38.2	2
36	39.16	10	57.6	6	9.67	25	103.5	2	16.79	15	58.2	5	43.35	14	37.7	5
Mittl. Ort	35.93		76.7		7.00		65.6		13.81		25.9		40.31		6.3	
sec δ, tg δ	1.003		−0.078		1.678		+1.347		1.196		+0.655		1.159		+0.586	

1913	21) α Cassiopej.				22) β Ceti.				24) 21 Cassiopej.				25) o Cassiopej.			
	AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	$0^h 35^m$		$56° 3'$		$0^h 39^m$		$18° 27'$		$0^h 39^m$		$74° 30'$		$0^h 39^m$		$47° 48'$	
Jan. 0	$32^s.73$	27	$54''.0$	4	$13^s.48$	12	$57''.5$	5	$50^s.77$	70	$65''.6$	1	$51^s.53$	20	$44''.9$	4
10	32.46	28	53.6	8	13.36	11	58.0	1	50.07	70	65.7	6	51.33	21	44.5	8
20	32.18	26	52.8	13	13.25	11	58.1	1	49.37	67	65.1	11	51.12	20	43.7	13
30	31.92	24	51.5	17	13.14	9	58.0	3	48.70	61	64.0	17	50.92	19	42.4	16
Febr. 9	31.68	20	49.8	21	13.05	8	57.7	7	48.09	52	62.3	21	50.73	15	40.8	19
19	31.48	15	47.7	23	12.97	5	57.0	9	47.57	42	60.2	25	50.58	12	38.9	20
März 1	31.33	9	45.4	24	12.92	3	56.1	11	47.15	29	57.7	28	50.46	7	36.9	22
11	31.24	3	43.0	25	12.89	1	55.0	14	46.86	14	54.9	29	50.39	2	34.7	22
21	31.21	5	40.5	27	12.90	4	53.6	17	46.72	1	52.0	29	50.37	5	32.5	21
31	31.26	13	37.8	22	12.94	9	51.9	21	46.73	20	49.1	30	50.42	12	30.4	20
April 10	31.39	20	35.6	19	13.03	13	49.8	21	46.93	34	46.1	26	50.54	17	28.4	16
20	31.59	28	33.7	16	13.16	18	47.7	22	47.27	47	43.5	23	50.71	24	26.8	13
30	31.87	34	32.1	11	13.34	21	45.5	24	47.74	61	41.2	19	50.95	29	25.5	8
Mai 10	32.21	40	31.0	7	13.55	25	43.1	24	48.35	72	39.3	14	51.24	34	24.7	4
20	32.61	44	30.3	3	13.80	28	40.7	25	49.07	80	37.9	8	51.58	38	24.3	1
30	33.05	47	30.0	3	14.08	31	38.2	24	49.87	86	37.1	3	51.96	40	24.4	5
Juni 9	33.52	49	30.3	8	14.39	32	35.8	23	50.73	90	36.8	2	52.36	43	24.9	10
19	34.01	50	31.1	13	14.71	34	33.5	21	51.63	92	37.0	8	52.79	43	25.9	13
29	34.51	49	32.4	17	15.05	33	31.4	20	52.55	90	37.8	13	53.22	43	27.2	18
Juli 9	35.00	47	34.1	21	15.38	32	29.4	16	53.45	88	39.1	17	53.65	41	29.0	22
19	35.47	45	36.2	24	15.70	31	27.8	14	54.33	82	40.8	23	54.06	39	31.2	24
29	35.92	41	38.6	28	16.01	29	26.4	10	55.15	76	43.1	26	54.45	36	33.6	27
Aug. 8	36.33	36	41.4	30	16.30	26	25.4	7	55.91	67	45.7	30	54.81	33	36.3	28
18	36.69	31	44.4	31	16.56	22	24.7	3	56.58	58	48.7	33	55.14	28	39.1	29
28	37.00	25	47.5	33	16.78	19	24.4	0	57.16	47	52.0	35	55.42	23	42.0	31
Sept. 7	37.25	21	50.8	33	16.97	15	24.4	3	57.63	36	55.5	37	55.65	18	45.1	30
17	37.46	14	54.1	33	17.12	11	24.7	7	57.99	25	59.2	37	55.83	13	48.1	30
27	37.60	8	57.4	32	17.23	7	25.4	9	58.24	13	62.9	37	55.96	9	51.1	28
Okt. 7	37.68	3	60.6	30	17.30	3	26.3	11	58.37	1	66.6	37	56.05	5	53.9	27
17	37.71	2	63.6	29	17.33	1	27.4	12	58.38	11	70.3	35	56.10	0	56.6	25
27	37.69	7	66.5	26	17.34	3	28.6	13	58.27	22	73.8	32	56.10	5	59.1	22
Nov. 6	37.62	12	69.1	22	17.31	5	29.9	12	58.05	33	77.0	30	56.05	8	61.3	19
16	37.50	17	71.3	19	17.26	7	31.1	13	57.72	44	80.0	26	55.97	11	63.2	16
26	37.33	20	73.2	14	17.19	9	32.4	11	57.28	53	82.6	21	55.86	15	64.8	12
Dez. 6	37.13	23	74.6	9	17.10	11	33.5	10	56.75	60	84.7	15	55.71	17	66.0	7
16	36.90	25	75.5	5	16.99	11	34.5	7	56.15	65	86.2	10	55.54	19	66.7	2
26	36.65	27	76.0	1	16.88	11	35.2	6	55.50	69	87.2	4	55.35	20	66.9	2
36	36.38		75.9		16.77		35.8		54.81		87.6		55.15		66.7	
Mittl. Ort	33.69		37.3		13.38		50.5		52.85		45.5		52.24		30.0	
sec δ, tg δ	1.791		+1.486		1.054		−0.334		3.744		+3.608		1.489		+1.103	

1913	27) ζ Andromed. AR.		Dekl. +		32) γ Cassiopej. AR.		Dekl. +		33) μ Andromed. AR.		Dekl. +		35) α Sculptoris. AR.		Dekl. —	
	$0^h 42^m$		23° 47′		$0^h 51^m$		60° 14′		$0^h 51^m$		38° 1′		$0^h 54^m$		29° 49′	
	s		″		s		″		s		″		s		″	
Jan. 0	43.11	12	46.3	6	25.91	32	63.1	1	54.72	16	52.3	5	25.18	14	49.3	4
10	42.99	12	45.7	8	25.59	33	63.0	6	54.56	17	51.8	8	25.04	14	49.7	0
20	42.87	13	44.9	10	25.26	32	62.4	11	54.39	16	51.0	11	24.90	13	49.7	4
30	42.74	11	43.9	12	24.94	29	61.3	16	54.23	15	49.9	13	24.77	13	49.3	7
Febr. 9	42.63	9	42.7	12	24.65	26	59.7	19	54.08	12	48.6	16	24.64	11	48.6	11
19	42.54	6	41.5	12	24.39	20	57.8	23	53.96	10	47.0	17	24.53	8	47.5	14
März 1	42.48	4	40.3	11	24.19	14	55.5	24	53.86	6	45.3	18	24.45	5	46.1	17
11	42.44	1	39.2	11	24.05	6	53.1	26	53.80	2	43.5	17	24.40	2	44.4	20
21	42.45	4	38.1	8	23.99	1	50.5	26	53.78	3	41.8	16	24.38	2	42.4	24
31	42.49	10	37.3	7	24.00	11	47.9	26	53.81	10	40.2	16	24.40	8	40.0	26
April 10	42.59	14	36.6	3	24.11	20	45.3	21	53.91	14	38.6	11	24.48	11	37.4	27
20	42.73	19	36.3	1	24.31	28	43.2	19	54.05	20	37.5	8	24.59	16	34.7	27
30	42.92	22	36.2	3	24.59	35	41.3	14	54.25	25	36.7	5	24.75	20	32.0	29
Mai 10	43.14	27	36.5	7	24.94	41	39.9	10	54.50	29	36.2	0	24.95	25	29.1	28
20	43.41	30	37.2	10	25.35	47	38.9	5	54.79	33	36.2	3	25.20	28	26.3	28
30	43.71	32	38.2	13	25.82	51	38.4	1	55.12	36	36.5	8	25.48	31	23.5	26
Juni 9	44.03	34	39.5	16	26.33	53	38.3	5	55.48	37	37.3	11	25.79	33	20.9	25
19	44.37	35	41.1	19	26.86	55	38.8	10	55.85	39	38.4	15	26.12	35	18.4	22
29	44.72	34	43.0	20	27.41	54	39.8	14	56.24	38	39.9	18	26.47	35	16.2	19
Juli 9	45.06	33	45.0	21	27.95	53	41.2	19	56.62	38	41.7	21	26.82	35	14.3	15
19	45.39	32	47.1	23	28.48	51	43.1	23	57.00	35	43.8	23	27.17	33	12.8	11
29	45.71	29	49.4	23	28.99	47	45.4	26	57.35	33	46.1	25	27.50	31	11.7	7
Aug. 8	46.00	26	51.7	22	29.46	42	48.0	28	57.68	30	48.6	26	27.81	29	11.0	3
18	46.26	23	53.9	23	29.88	37	50.8	31	57.98	27	51.2	26	28.10	25	10.7	1
28	46.49	20	56.2	21	30.25	31	53.9	33	58.25	22	53.8	27	28.35	21	10.8	6
Sept. 7	46.69	15	58.3	19	30.56	25	57.2	33	58.47	18	56.5	26	28.56	17	11.4	9
17	46.84	12	60.2	19	30.81	19	60.5	34	58.65	14	59.1	25	28.73	13	12.3	12
27	46.96	8	62.1	16	31.00	12	63.9	33	58.79	10	61.6	24	28.86	9	13.5	15
Okt. 7	47.04	5	63.7	14	31.12	6	67.2	32	58.89	7	64.0	22	28.95	4	15.0	17
17	47.09	2	65.1	12	31.18	0	70.4	31	58.96	2	66.2	20	28.99	1	16.7	19
27	47.11	1	66.3	10	31.18	6	73.5	28	58.98	1	68.2	18	29.00	3	18.6	18
Nov. 6	47.10	4	67.3	7	31.12	11	76.3	26	58.97	4	70.0	15	28.97	6	20.4	18
16	47.06	6	68.0	5	31.01	17	78.9	21	58.93	7	71.5	12	28.91	8	22.2	16
26	47.00	8	68.5	2	30.84	22	81.0	17	58.86	10	72.7	8	28.83	10	23.8	15
Dez. 6	46.92	10	68.7	0	30.62	25	82.7	13	58.76	12	73.5	5	28.73	13	25.3	12
16	46.82	11	68.7	3	30.37	29	84.0	7	58.64	15	74.0	1	28.60	13	26.5	8
26	46.71	12	68.4	5	30.08	31	84.7	2	58.49	15	74.1	3	28.47	14	27.3	6
36	46.59		67.9		29.77		84.9		58.34		73.8		28.33		27.9	
Mittl. Ort	43.43		38.5		26.82		45.0		55.15		39.6		24.85		39.3	
sec δ, tg δ	1.093		+0.441		2.015		+1.749		1.269		+0.782		1.153		−0.573	

1913	36) ε Piscium. AR.		Dekl. +		38) β Phoenicis. AR.		Dekl. −		42) β Andromed. AR.		Dekl. +		45) υ Piscium. AR.		Dekl. +	
	0h 58m		7° 25′		1h 2m		47° 10′		1h 4m		35° 9′		1h 14m		26° 48′	
Jan. 0	25.52	11	21.8	6	12.84	22	78.8	2	51.07	15	46.7	4	40.70	12	35.2	4
10	25.41	11	21.2	7	12.62	21	79.0	— 4	50.92	16	46.3	7	40.58	14	34.8	7
20	25.30	11	20.5	6	12.41	21	78.6	8	50.76	15	45.6	9	40.44	14	34.1	8
30	25.19	10	19.9	6	12.20	19	77.8	13	50.61	15	44.7	13	40.30	13	33.3	10
Febr. 9	25.09	8	19.3	5	12.01	17	76.5	18	50.46	13	43.4	14	40.17	12	32.3	12
19	25.01	7	18.8	5	11.84	13	74.7	21	50.33	10	42.0	15	40.05	9	31.1	12
März 1	24.94	4	18.3	3	11.71	10	72.6	25	50.23	7	40.5	16	39.96	7	29.9	12
11	24.90	1	18.0	1	11.61	6	70.1	28	50.16	3	38.9	16	39.89	3	28.7	11
21	24.89	— 3	17.9	1	11.55	1	67.3	31	50.13	— 2	37.3	15	39.86	— 1	27.6	10
31	24.92	8	18.0	5	11.54	— 5	64.2	35	50.15	8	35.8	14	39.87	5	26.6	8
April 10	25.00	11	18.5	6	11.59	11	60.7	34	50.23	13	34.4	10	39.92	12	25.8	7
20	25.11	16	19.1	8	11.70	16	57.3	33	50.36	18	33.4	7	40.04	16	25.1	3
30	25.27	20	19.9	12	11.86	22	54.0	34	50.54	22	32.7	4	40.20	21	24.8	0
Mai 10	25.47	24	21.1	14	12.08	26	50.6	32	50.76	28	32.3	0	40.41	24	24.8	4
20	25.71	27	22.5	15	12.34	32	47.4	31	51.04	31	32.3	4	40.65	29	25.2	7
30	25.98	30	24.0	18	12.66	35	44.3	28	51.35	34	32.7	7	40.94	31	25.9	10
Juni 9	26.28	31	25.8	19	13.01	38	41.5	25	51.69	36	33.4	11	41.25	34	26.9	13
19	26.59	32	27.7	20	13.39	40	39.0	22	52.05	38	34.5	15	41.59	35	28.2	15
29	26.91	33	29.7	21	13.79	42	36.8	17	52.43	38	36.0	17	41.94	35	29.7	18
Juli 9	27.24	32	31.8	20	14.21	41	35.1	13	52.81	36	37.7	20	42.29	35	31.5	20
19	27.56	30	33.8	20	14.62	39	33.8	7	53.17	36	39.7	22	42.64	34	33.5	21
29	27.86	29	35.8	19	15.01	38	33.1	2	53.53	33	41.9	24	42.98	31	35.6	22
Aug. 8	28.15	26	37.7	17	15.39	35	32.9	— 3	53.86	30	44.3	24	43.29	30	37.8	22
18	28.41	23	39.4	15	15.74	30	33.2	8	54.16	27	46.7	24	43.59	26	40.0	22
28	28.64	20	40.9	13	16.04	26	34.0	13	54.43	23	49.1	25	43.85	23	42.2	21
Sept. 7	28.84	16	42.2	11	16.30	21	35.3	16	54.66	20	51.6	25	44.08	19	44.3	21
17	29.00	13	43.3	9	16.51	15	36.9	21	54.86	15	54.1	23	44.27	16	46.4	19
27	29.13	10	44.2	6	16.66	10	39.0	22	55.01	12	56.4	23	44.43	12	48.3	17
Okt. 7	29.23	6	44.8	4	16.76	4	41.2	25	55.13	8	58.7	20	44.55	9	50.0	16
17	29.29	3	45.2	3	16.80	— 1	43.7	25	55.21	4	60.7	18	44.64	5	51.6	14
27	29.32	1	45.5	0	16.79	5	46.2	25	55.25	1	62.5	17	44.69	2	53.0	11
Nov. 6	29.33	— 2	45.5	1	16.74	11	48.7	23	55.26	— 3	64.2	14	44.71	— 1	54.1	10
16	29.31	5	45.4	3	16.63	13	51.0	21	55.23	5	65.6	10	44.70	3	55.1	7
26	29.26	6	45.1	4	16.50	17	53.1	18	55.18	8	66.6	8	44.67	6	55.8	4
Dez. 6	29.20	7	44.7	4	16.33	19	54.9	13	55.10	11	67.4	5	44.61	8	56.2	2
16	29.13	10	44.3	6	16.14	21	56.2	9	54.99	12	67.9	1	44.53	10	56.4	0
26	29.03	10	43.7	6	15.93	22	57.1	4	54.87	14	68.0	— 2	44.43	12	56.4	3
36	28.93		43.1		15.71		57.5		54.73		67.8		44.31		56.1	
Mittl. Ort	25.57		19.1		12.12		64.6		51.37		34.5		40.84		25.3	
sec δ, tg δ	1.008		+0.130		1.471		−1.079		1.223		+0.704		1.120		+0.505	

1913	47) θ Ceti. AR.	Δ	Dekl. —	Δ	48) δ Cassiopej. AR.	Δ	Dekl. +	Δ	50) η Piscium. AR.	Δ	Dekl. +	Δ	51) 40 Cassiopej. AR.	Δ	Dekl. +	Δ
	1h 19m		8° 37′		1h 20m		59° 46′		1h 26m		14° 53′		1h 31m		72° 35′	
Jan. 0	40.69	11	57.5	6	6.25	30	79.4	2	49.56	11	57.6	6	31.55	58	70.7	7
10	40.58	11	58.1	5	5.95	32	79.6	2	49.45	11	57.0	6	30.97	61	71.4	1
20	40.47	12	58.6	3	5.63	33	79.4	8	49.34	12	56.4	6	30.36	61	71.5	5
30	40.35	11	58.9	2	5.30	30	78.6	13	49.22	12	55.8	8	29.75	60	71.0	10
Febr. 9	40.24	10	59.1	1	5.00	28	77.3	16	49.10	11	55.0	7	29.15	54	70.0	15
19	40.14	9	59.0	4	4.72	24	75.7	20	48.99	10	54.3	7	28.61	48	68.5	21
März 1	40.05	6	58.6	5	4.48	18	73.7	23	48.89	7	53.6	6	28.13	38	66.4	23
11	39.99	3	58.1	8	4.30	11	71.4	24	48.82	3	53.0	5	27.75	26	64.1	26
21	39.96	0	57.3	10	4.19	3	69.0	25	48.79	0	52.5	4	27.49	13	61.5	28
31	39.96	4	56.3	13	4.16	5	66.5	25	48.79	4	52.1	1	27.36	0	58.7	28
April 10	40.00	10	55.0	17	4.21	15	64.0	24	48.83	10	52.0	1	27.36	17	55.9	29
20	[11] 40.10	14	53.3	17	[11] 4.36	23	61.6	19	[13] 48.93	13	52.1	4	[14] 27.53	30	53.0	25
30	40.24	17	51.6	19	4.59	30	59.7	17	49.06	19	52.5	6	27.83	43	50.5	22
Mai 10	40.41	22	49.7	21	4.89	38	58.0	12	49.25	22	53.1	9	28.26	54	48.3	18
20	40.63	24	47.6	22	5.27	44	56.8	8	49.47	26	54.0	12	28.80	65	46.5	13
30	40.87	28	45.4	22	5.71	48	56.0	3	49.73	29	55.2	14	29.45	73	45.2	10
Juni 9	41.15	30	43.2	23	6.19	52	55.7	1	50.02	31	56.6	16	30.18	78	44.2	4
19	41.45	32	40.9	22	6.71	54	55.8	6	50.33	32	58.2	18	30.96	83	43.8	1
29	41.77	32	38.7	20	7.25	55	56.4	11	50.65	34	60.0	19	31.79	85	43.9	7
Juli 9	42.09	32	36.7	20	7.80	54	57.5	16	50.99	33	61.9	19	32.64	85	44.6	11
19	42.41	32	34.7	17	8.34	53	59.1	19	51.32	32	63.8	20	33.49	83	45.7	16
29	42.73	29	33.0	14	8.87	50	61.0	23	51.64	30	65.8	20	34.32	79	47.3	20
Aug. 8	43.02	28	31.6	12	9.37	46	63.3	26	51.94	28	67.8	18	35.11	74	49.3	24
18	43.30	24	30.4	8	9.83	41	65.9	28	52.22	26	69.6	18	35.85	67	51.7	28
28	43.54	21	29.6	6	10.24	36	68.7	30	52.48	22	71.4	16	36.52	59	54.5	31
Sept. 7	43.75	18	29.0	2	10.60	31	71.7	32	52.70	20	73.0	14	37.11	51	57.6	33
17	43.93	15	28.8	1	10.91	24	74.9	33	52.90	16	74.4	13	37.62	41	60.9	34
27	44.08	12	28.9	3	11.15	19	78.2	32	53.06	13	75.7	10	38.03	31	64.3	36
Okt. 7	44.20	8	29.2	6	11.34	13	81.4	32	53.19	9	76.7	9	38.34	21	67.9	35
17	44.28	4	29.8	8	11.47	7	84.6	30	53.28	7	77.6	6	38.55	11	71.4	36
27	44.32	2	30.6	9	11.54	0	87.6	29	53.35	3	78.2	4	38.66	1	75.0	33
Nov. 6	44.34	1	31.5	10	11.54	6	90.5	27	53.38	1	78.6	3	38.65	11	78.3	32
16	44.33	3	32.5	10	11.48	11	93.2	23	53.39	2	78.9	1	38.54	22	81.5	29
26	44.30	6	33.5	10	11.37	17	95.5	19	53.37	4	79.0	0	38.32	31	84.4	25
Dez. 6	44.24	7	34.5	10	11.20	21	97.4	15	53.33	7	79.0	2	38.01	41	86.9	21
16	44.17	9	35.5	8	10.99	26	98.9	10	53.26	8	78.8	3	37.60	49	89.0	15
26	44.08	11	36.3	8	10.73	29	99.9	6	53.18	10	78.5	5	37.11	55	90.5	11
36	43.97		37.1		10.44		100.5		53.08		78.0		36.56		91.6	
Mittl. Ort	40.46		55.3		6.79		60.6		49.51		51.3		32.30		49.6	
sec δ, tg δ	1.011		—0.152		1.987		+1.717		1.035		+0.266		3.343		+3.190	

1913	52) υ Persei. AR.	Δ	52) υ Persei. Dekl. +	Δ	54) α Eridani. AR.	Δ	54) α Eridani. Dekl. −	Δ
	$1^h\ 32^m$		48° 11′		$1^h\ 34^m$		57° 40′	
Jan. 0	38.45	19	32.5	1	29.95	31	57.4	4
10	38.26	22	32.6	2	29.64	33	57.8	2
20	38.04	22	32.4	7	29.31	32	57.6	8
30	37.82	22	31.7	12	28.99	30	56.8	13
Febr. 9	37.60	20	30.5	14	28.69	28	55.5	18
19	37.40	17	29.1	17	28.41	25	53.7	22
März 1	37.23	13	27.4	19	28.16	21	51.5	27
11	37.10	9	25.5	20	27.95	15	48.8	30
21	37.01	2	23.5	20	27.80	10	45.8	33
31	36.99	3	21.5	20	27.70	3	42.5	34
April 10	37.02	11	19.5	19	27.67	5	39.1	40
20	[15] 37.13	17	17.6	15	[15] 27.72	11	35.1	37
30	37.30	24	16.1	12	27.83	19	31.4	35
Mai 10	37.54	29	14.9	8	28.02	25	27.9	36
20	37.83	34	14.1	4	28.27	32	24.3	34
30	38.17	38	13.7	1	28.59	36	20.9	30
Juni 9	38.55	41	13.6	5	28.95	42	17.9	28
19	38.96	43	14.1	8	29.37	45	15.1	24
29	39.39	44	14.9	12	29.82	48	12.7	18
Juli 9	39.83	44	16.1	16	30.30	48	10.9	14
19	40.27	43	17.7	19	30.78	49	9.5	8
29	40.70	40	19.6	21	31.27	47	8.7	2
Aug. 8	41.10	38	21.7	24	31.74	43	8.5	3
18	41.48	34	24.1	26	32.17	40	8.8	9
28	41.82	31	26.7	27	32.57	35	9.7	14
Sept. 7	42.13	26	29.4	27	32.92	29	11.1	19
17	42.39	22	32.1	28	33.21	23	13.0	23
27	42.61	18	34.9	28	33.44	16	15.3	26
Okt. 7	42.79	13	37.7	26	33.60	8	17.9	27
17	42.92	9	40.3	26	33.68	2	20.6	29
27	43.01	4	42.9	23	33.70	5	23.5	29
Nov. 6	43.05	1	45.2	22	33.65	12	26.4	28
16	43.04	4	47.4	18	33.53	16	29.2	24
26	43.00	9	49.2	16	33.37	22	31.6	22
Dez. 6	42.91	12	50.8	11	33.15	26	33.8	17
16	42.79	16	51.9	8	32.89	29	35.5	12
26	42.63	18	52.7	3	32.60	32	36.7	7
36	42.45		53.0		32.28		37.4	
Mittl. Ort	38.67		16.0		28.57		42.7	
sec δ, tg δ	1.500		+1.118		1.870		−1.580	

1913	55) 43 Cassiopej. AR.	Δ	55) 43 Cassiopej. Dekl. +	Δ	57) φ Persei. AR.	Δ	57) φ Persei. Dekl. +	Δ
	$1^h\ 35^m$		67° 36′		$1^h\ 38^m$		50° 15′	
Jan. 0	52.27	42	33.0	6	11.77	21	20.2	2
10	51.85	46	33.6	1	11.56	22	20.4	2
20	51.39	47	33.7	5	11.34	24	20.2	7
30	50.92	45	33.2	10	11.10	23	19.5	10
Febr. 9	50.47	41	32.2	16	10.87	22	18.5	14
19	50.06	36	30.6	19	10.65	19	17.1	17
März 1	49.70	29	28.7	22	10.46	15	15.4	20
11	49.41	20	26.5	25	10.31	9	13.4	20
21	49.21	11	24.0	27	10.22	4	11.4	21
31	49.10	1	21.3	26	10.18	2	9.3	20
April 10	49.11	13	18.7	28	10.20	11	7.3	20
20	[16] 49.24	24	15.9	24	[16] 10.31	17	5.3	16
30	49.48	35	13.5	20	10.48	23	3.7	13
Mai 10	49.83	44	11.5	17	10.71	30	2.4	10
20	50.27	53	9.8	12	11.01	34	1.4	5
30	50.80	59	8.6	8	11.35	39	0.9	2
Juni 9	51.39	64	7.8	2	11.74	42	0.7	3
19	52.03	68	7.6	2	12.16	45	1.0	7
29	52.71	69	7.8	7	12.61	45	1.7	11
Juli 9	53.40	69	8.5	12	13.06	45	2.8	15
19	54.09	67	9.7	16	13.51	45	4.3	18
29	54.76	65	11.3	20	13.96	42	6.1	21
Aug. 8	55.41	60	13.3	24	14.38	40	8.2	23
18	56.01	55	15.7	27	14.78	36	10.5	26
28	56.56	50	18.4	30	15.14	32	13.1	27
Sept. 7	57.06	42	21.4	32	15.46	28	15.8	28
17	57.48	35	24.6	33	15.74	24	18.6	28
27	57.83	28	27.9	34	15.98	19	21.4	28
Okt. 7	58.11	19	31.3	34	16.17	14	24.2	28
17	58.30	10	34.7	34	16.31	10	27.0	26
27	58.40	3	38.1	32	16.41	4	29.6	24
Nov. 6	58.43	6	41.3	30	16.45	1	32.0	23
16	58.37	14	44.3	28	16.46	4	34.3	20
26	58.23	21	47.1	23	16.42	9	36.3	17
Dez. 6	58.02	29	49.4	19	16.33	13	38.0	13
16	57.73	35	51.3	15	16.20	16	39.3	8
26	57.38	40	52.8	9	16.04	20	40.1	5
36	56.98		53.7		15.84		40.6	
Mittl. Ort	52.76		12.5		11.96		3.1	
sec δ, tg δ	2.624		+2.426		1.564		+1.202	

1913	59) τ Ceti*).				60) ο Piscium.				61) Lac. ε Sculpt.				62) ζ Ceti.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. −	
	$1^h\ 40^m$		16° 23′		$1^h\ 40^m$		8° 43′		$1^h\ 41^m$		25° 28′		$1^h\ 47^m$		10° 45′	
Jan. 0	$1^s.99$	12	47″.5	7	$48^s.03$	10	17″.4	6	$34^s.81$	14	81″.0	8	$10^s.33$	11	54″.1	8
10	1.87	12	48.2	5	47.93	12	16.8	6	34.67	14	81.8	4	10.22	12	54.9	5
20	1.75	14	48.7	2	47.81	12	16.2	6	34.53	15	82.2	1	10.10	12	55.4	4
30	1.61	14	48.9	2	47.69	12	15.6	5	34.38	14	82.3	3	9.98	13	55.8	1
Febr. 9	1.47	12	48.7	4	47.57	11	15.1	5	34.24	14	82.0	7	9.85	12	55.9	1
19	1.35	10	48.3	6	47.46	10	14.6	4	34.10	12	81.3	10	9.73	11	55.8	3
März 1	1.25	8	47.7	9	47.36	7	14.2	4	33.98	9	80.3	13	9.62	8	55.5	6
11	1.17	6	46.8	13	47.29	5	13.8	1	33.89	7	79.0	16	9.54	6	54.9	9
21	1.11	3	45.5	15	47.24	2	13.7	0	33.82	3	77.4	19	9.48	2	54.0	11
31	1.08	2	44.0	17	47.22	3	13.7	2	33.79	1	75.5	22	9.46	2	52.9	14
April 10	(17) 1.10	7	42.3	21	(17) 47.25	8	13.9	5	(17) 33.80	6	73.3	26	(19) 9.48	6	51.5	18
20	1.17	11	40.2	22	47.33	12	14.4	7	33.86	11	70.7	26	9.54	10	49.7	18
30	1.28	16	38.0	24	47.45	17	15.1	10	33.97	15	68.1	27	9.64	15	47.9	20
Mai 10	1.44	20	35.6	24	47.62	20	16.1	12	34.12	20	65.4	28	9.79	19	45.9	21
20	1.64	23	33.2	26	47.82	24	17.3	14	34.32	24	62.6	28	9.98	23	43.8	23
30	1.87	27	30.6	25	48.06	28	18.7	16	34.56	27	59.8	27	10.21	26	41.5	23
Juni 9	2.14	29	28.1	24	48.34	30	20.3	17	34.83	30	57.1	26	10.47	29	39.2	23
19	2.43	31	25.7	23	48.64	31	22.0	19	35.13	32	54.5	24	10.76	31	36.9	23
29	2.74	32	23.4	21	48.95	33	23.9	19	35.45	33	52.1	22	11.07	32	34.6	21
Juli 9	3.06	32	21.3	20	49.28	32	25.8	20	35.78	34	49.9	18	11.39	32	32.5	19
19	3.38	32	19.3	17	49.60	32	27.8	19	36.12	33	48.1	15	11.71	32	30.6	18
29	3.70	30	17.6	13	49.92	31	29.7	18	36.45	32	46.6	12	12.03	30	28.8	14
Aug. 8	4.00	29	16.3	9	50.23	28	31.5	17	36.77	30	45.4	7	12.33	29	27.4	12
18	4.29	26	15.4	6	50.51	26	33.2	15	37.07	28	44.7	2	12.62	26	26.2	8
28	4.55	22	14.8	2	50.77	23	34.7	13	37.35	24	44.5	2	12.88	24	25.4	5
Sept. 7	4.77	20	14.6	1	51.00	20	36.0	11	37.59	21	44.7	5	13.12	20	24.9	1
17	4.97	16	14.7	5	51.20	18	37.1	8	37.80	17	45.2	10	13.32	18	24.8	1
27	5.13	12	15.2	8	51.38	14	37.9	7	37.97	14	46.2	12	13.50	13	24.9	5
Okt. 7	5.25	10	16.0	10	51.52	10	38.6	5	38.11	10	47.4	16	13.63	11	25.4	7
17	5.35	6	17.0	12	51.62	8	39.1	2	38.21	6	49.0	17	13.74	8	26.1	9
27	5.41	2	18.2	14	51.70	5	39.3	1	38.27	3	50.7	18	13.82	4	27.0	11
Nov. 6	5.43	1	19.6	15	51.75	2	39.4	1	38.30	1	52.5	19	13.86	1	28.1	12
16	5.42	2	21.1	14	51.77	1	39.3	2	38.29	4	54.4	18	13.87	1	29.3	13
26	5.40	6	22.5	13	51.76	3	39 1	4	38.25	6	56.2	16	13.86	4	30.6	11
Dez. 6	5.34	9	23.8	12	51.73	6	38.7	4	38.19	9	57.8	15	13.82	6	31.7	11
16	5.25	9	25.0	10	51.67	7	38.3	5	38.10	11	59.3	12	13.76	8	32.8	11
26	5.16	11	26.0	8	51.60	10	37.8	5	37.99	13	60.5	9	13.68	11	33.9	8
36	5.05		26.8		51.50		37.3		37.86		61.4		13.57		34.7	
Mittl. Ort	1.57		43.5		47.84		12.8		34.24		74.4		9.92		52.3	
sec δ, tg δ	1.042		−0.294		1.012		+0.153		1.108		−0.477		1.018		−0.190	

*) Die jährliche Parallaxe ist bereits angebracht.

1913	63) ε Cassiopej. AR.		Dekl. +		64) α Trianguli. AR.		Dekl. +		65) ξ Piscium. AR.		Dekl. +		66) β Arietis. AR.		Dekl. +	
	$1^h 48^m$		63° 14′		$1^h 48^m$		29° 9′		$1^h 49^m$		2° 45′		$1^h 49^m$		20° 22′	
	s		″		s		″		s		″		s		″	
Jan. 0	7.09	34	51.7	6	7.15	13	30.9	2	3.29	10	32.9	7	49.98	11	68.1	4
10	6.75	36	52.3	1	7.02	13	30.7	4	3.19	12	32.2	5	49.87	12	67.7	5
20	6.39	38	52.4	4	6.89	15	30.3	7	3.07	12	31.7	5	49.75	13	67.2	6
30	6.01	37	52.0	9	6.74	15	29.6	8	2.95	12	31.2	5	49.62	14	66.6	7
Febr. 9	5.64	34	51.1	13	6.59	14	28.8	10	2.83	12	30.7	3	49.48	12	65.9	8
19	5.30	31	49.8	18	6.45	13	27.8	12	2.71	10	30.4	2	49.36	12	65.1	9
März 1	4.99	26	48.0	21	6.32	10	26.6	11	2.61	8	30.2	0	49.24	9	64.2	8
11	4.73	18	45.9	24	6.22	6	25.5	12	2.53	6	30.2	1	49.15	6	63.4	7
21	4.55	10	43.5	24	6.16	3	24.3	11	2.47	2	30.3	4	49.09	2	62.7	6
31	4.45	1	41.1	25	6.13	2	23.2	10	2.45	2	30.7	6	49.07	2	62.1	5
April 10	4.44	10	38.6	27	6.15	8	22.2	8	2.47	7	31.3	9	49.09	7	61.6	3
20	[19] 4.54	20	35.9	22	[19] 6.23	13	21.4	6	[19] 2.54	11	32.2	10	[19] 49.16	12	61.3	0
30	4.74	28	33.7	19	6.36	17	20.8	2	2.65	15	33.2	13	49.28	17	61.3	2
Mai 10	5.02	37	31.8	16	6.53	23	20.6	1	2.80	19	34.5	15	49.45	21	61.5	6
20	5.39	44	30.2	12	6.76	27	20.7	3	2.99	24	36.0	16	49.66	25	62.1	8
30	5.83	50	29.0	8	7.03	30	21.0	7	3.23	26	37.6	18	49.91	28	62.9	10
Juni 9	6.33	55	28.2	2	7.33	32	21.7	10	3.49	29	39.4	20	50.19	31	63.9	13
19	6.88	59	28.0	1	7.65	35	22.7	13	3.78	31	41.4	20	50.50	33	65.2	15
29	7.47	60	28.1	7	8.00	36	24.0	15	4.09	32	43.4	19	50.83	33	66.7	17
Juli 9	8.07	60	28.8	11	8.36	36	25.5	17	4.41	32	45.3	19	51.16	34	68.4	18
19	8.67	59	29.9	15	8.72	35	27.2	18	4.73	32	47.2	19	51.50	34	70.2	19
29	9.26	58	31.4	19	9.07	34	29.0	20	5.05	30	49.1	17	51.84	32	72.1	19
Aug. 8	9.84	54	33.3	23	9.41	32	31.0	20	5.35	29	50.8	15	52.16	30	74.0	19
18	10.38	49	35.6	26	9.73	29	33.0	20	5.64	26	52.3	13	52.46	28	75.9	18
28	10.87	45	38.2	28	10.02	26	35.0	21	5.90	23	53.6	11	52.74	25	77.7	17
Sept. 7	11.32	39	41.0	30	10.28	23	37.1	20	6.13	21	54.7	8	52.99	22	79.4	16
17	11.71	34	44.0	32	10.51	20	39.1	19	6.34	17	55.5	5	53.21	19	81.0	15
27	12.05	27	47.2	32	10.71	16	41.0	18	6.51	15	56.0	3	53.40	15	82.5	13
Okt. 7	12.32	20	50.4	32	10.87	13	42.8	16	6.66	11	56.3	1	53.55	13	83.8	11
17	12.52	13	53.6	32	11.00	10	44.4	15	6.77	8	56.4	1	53.68	9	84.9	10
27	12.65	6	56.8	31	11.10	6	45.9	13	6.85	6	56.3	3	53.77	6	85.9	8
Nov. 6	12.71	0	59.9	29	11.16	3	47.2	11	6.91	2	56.0	5	53.83	3	86.7	5
16	12.71	8	62.8	26	11.19	0	48.3	9	6.93	0	55.5	5	53.86	0	87.2	4
26	12.63	14	65.4	23	11.19	4	49.2	7	6.93	2	55.0	6	53.86	3	87.6	3
Dez. 6	12.49	21	67.7	18	11.15	6	49.9	4	6.91	6	54.4	7	53.83	5	87.9	0
16	12.28	26	69.5	14	11.09	9	50.3	2	6.85	7	53.7	7	53.78	7	87.9	1
26	12.02	31	70.9	10	11.00	11	50.5	1	6.78	9	53.0	6	53.71	10	87.8	2
36	11.71		71.9		10.89		50.4		6.69		52.4		53.61		87.6	
Mittl. Ort	7.31		31.8		7.07		19.4		3.00		30.1		49.83		59.4	
sec δ, tg δ	2.221		+1.983		1.145		+0.558		1.001		+0.048		1.067		+0.372	

1913	67) ψ Phoenicis. AR.		Dekl. —		68) χ Eridani. AR.		Dekl. —		71) υ Ceti. AR.		Dekl. —		70) 50 Cassiopej. AR.		Dekl. +	
	$1^h\ 50^m$	Diff.	46° 43′	Diff.	$1^h\ 52^m$	Diff.	52° 1′	Diff.	$1^h\ 55^m$	Diff.	21° 29′	Diff.	$1^h\ 55^m$	Diff.	71° 59′	Diff.
Jan. 0	10.61	22	54.8	7	35.60	26	103.4	7	54.94	13	61.3	8	58.57	53	84.7	10
10	10.39	23	55.5	2	35.34	27	104.1	1	54.81	13	62.1	5	58.04	57	85.7	4
20	10.16	24	55.7	3	35.07	27	104.2	4	54.68	14	62.6	3	57.47	59	86.1	2
30	9.92	23	55.4	8	34.80	27	103.8	9	54.54	15	62.9	1	56.88	59	85.9	7
Febr. 9	9.69	21	54.6	13	34.53	25	102.9	15	54.39	13	62.8	5	56.29	56	85.2	13
19	9.48	20	53.3	17	34.28	23	101.4	19	54.26	13	62.3	7	55.73	50	83.9	17
März 1	9.28	16	51.6	22	34.05	19	99.5	23	54.13	10	61.6	11	55.23	41	82.2	22
11	9.12	13	49.4	25	33.86	15	97.2	27	54.03	8	60.5	13	54.82	32	80.0	24
21	8.99	8	46.9	28	33.71	10	94.5	30	53.95	4	59.2	17	54.50	20	77.6	27
31	8.91	3	44.1	31	33.61	5	91.5	33	53.91	0	57.5	19	54.30	6	74.9	27
April 10	8.88	3	41.0	36	33.56	2	88.2	34	53.91	4	55.6	22	54.24	8	72.2	26
20	[19] 8.91	9	37.4	34	[20] 33.58	8	84.8	39	[21] 53.95	10	53.4	26	[21] 54.32	24	69.6	28
30	9.00	14	34.0	34	33.66	14	80.9	36	54.05	14	50.8	25	54.56	35	66.8	23
Mai 10	9.14	20	30.6	34	33.80	21	77.3	35	54.19	18	48.3	26	54.91	48	64.5	20
20	9.34	26	27.2	33	34.01	27	73.8	34	54.37	22	45.7	27	55.39	58	62.5	16
30	9.60	30	23.9	31	34.28	32	70.4	32	54.59	26	43.0	27	55.97	67	60.9	12
Juni 9	9.90	34	20.8	29	34.60	36	67.2	29	54.85	29	40.3	25	56.64	75	59.7	7
19	10.24	37	17.9	25	34.96	40	64.3	26	55.14	31	37.8	25	57.39	79	59.0	2
29	10.61	39	15.4	22	35.36	42	61.7	21	55.45	32	35.3	22	58.18	83	58.8	4
Juli 9	11.00	40	13.2	17	35.78	43	59.6	16	55.77	33	33.1	19	59.01	84	59.2	8
19	11.40	40	11.5	12	36.21	44	58.0	12	56.10	32	31.2	17	59.85	83	60.0	13
29	11.80	39	10.3	7	36.65	42	56.8	6	56.42	32	29.5	12	60.68	80	61.3	17
Aug. 8	12.19	37	9.6	1	37.07	41	56.2	0	56.74	30	28.3	9	61.48	76	63.0	21
18	12.56	34	9.5	4	37.48	37	56.2	6	57.04	28	27.4	5	62.24	71	65.1	25
28	12.90	30	9.9	10	37.85	33	56.8	12	57.32	25	26.9	1	62.95	64	67.6	28
Sept. 7	13.20	26	10.9	14	38.18	29	58.0	14	57.57	22	26.8	4	63.59	57	70.4	31
17	13.46	21	12.3	18	38.47	23	59.4	20	57.79	18	27.2	7	64.16	48	73.5	32
27	13.67	16	14.1	22	38.70	18	61.4	24	57.97	15	27.9	11	64.64	39	76.7	34
Okt. 7	13.83	11	16.3	25	38.88	11	63.8	26	58.12	12	29.0	13	65.03	29	80.1	35
17	13.94	5	18.8	26	38.99	6	66.4	28	58.24	8	30.3	15	65.32	19	83.6	35
27	13.99	1	21.4	27	39.05	0	69.2	28	58.32	4	31.8	17	65.51	9	87.1	34
Nov. 6	14.00	4	24.1	26	39.05	6	72.0	28	58.36	1	33.5	17	65.60	3	90.5	32
16	13.96	9	26.7	25	38.99	11	74.8	25	58.37	2	35.2	17	65.57	13	93.7	30
26	13.87	13	29.2	21	38.88	15	77.3	23	58.35	5	36.9	17	65.44	23	96.7	27
Dez. 6	13.74	16	31.3	19	38.73	19	79.6	19	58.30	7	38.6	14	65.21	33	99.4	22
16	13.58	19	33.2	14	38.54	23	81.5	15	58.23	9	40.0	13	64.88	42	101.6	18
26	13.39	22	34.6	10	38.31	25	83.0	9	58.14	12	41.3	10	64.46	49	103.4	12
36	13.17		35.6		38.06		83.9		58.02		42.3		63.97		104.6	
Mittl. Ort	9.53		43.1		34.31		90.7		54.35		56.5		58.78		63.4	
sec δ, tg δ	1.459		—1.062		1.626		—1.281		1.075		—0.394		3.236		+3.077	

1913	72) α Hydri. AR.		Dekl. −		73) γ Andromed. AR.		Dekl. +		74) α Arietis. AR.		Dekl. +		75) β Trianguli. AR.		Dekl. +	
	1h 56m		61° 58′		1h 58m		41° 54′		2h 2m		23° 3′		2h 4m		34° 34′	
Jan. 0	3.54	38	108.9	6	33.23	16	60.9	2	16.12	11	15.4	3	21.85	13	47.9	0
10	3.16	40	109.5	0	33.07	18	61.1	1	16.01	12	15.1	4	21.72	15	47.9	2
20	2.76	39	109.5	6	32.89	19	61.0	5	15.89	14	14.7	6	21.57	17	47.7	5
30	2.37	39	108.9	12	32.70	19	60.5	8	15.75	14	14.1	6	21.40	16	47.2	8
Febr. 9	1.98	36	107.7	16	32.51	18	59.7	12	15.61	14	13.5	8	21.24	16	46.4	9
19	1.62	33	106.1	22	32.33	17	58.5	14	15.47	12	12.7	9	21.08	15	45.5	12
März 1	1.29	29	103.9	26	32.16	13	57.1	15	15.35	10	11.8	9	20.93	13	44.3	13
11	1.00	23	101.3	29	32.03	10	55.6	17	15.25	8	10.9	8	20.80	9	43.0	13
21	0.77	16	98.4	33	31.93	6	53.9	16	15.17	3	10.1	8	20.71	4	41.7	13
31	0.61	10	95.1	35	31.87	1	52.3	16	15.14	1	9.3	6	20.67	0	40.4	13
April 10	0.51	2	91.6	36	31.88	6	50.7	15	15.15	5	8.7	4	20.67	5	39.1	11
20	0.49	8	88.0	42	31.94	14	49.2	14	15.20	12	8.3	3	20.72	13	38.0	10
30	0.57	14	83.8	37	32.08	19	47.8	10	15.32	15	8.0	1	20.85	17	37.0	6
Mai 10	0.71	23	80.1	36	32.27	24	46.8	7	15.47	21	8.1	3	21.02	22	36.4	3
20	0.94	30	76.5	35	32.51	29	46.1	3	15.68	24	8.4	6	21.24	26	36.1	0
30	1.24	37	73.0	32	32.80	34	45.8	0	15.92	28	9.0	9	21.50	31	36.1	4
Juni 9	1.61	42	69.8	30	33.14	36	45.8	4	16.20	31	9.9	11	21.81	33	36.5	6
19	2.03	48	66.8	25	33.50	39	46.2	8	16.51	33	11.0	14	22.14	36	37.1	10
29	2.51	50	64.3	20	33.89	40	47.0	11	16.84	34	12.4	15	22.50	37	38.1	12
Juli 9	3.01	53	62.3	15	34.29	41	48.1	14	17.18	34	13.9	17	22.87	38	39.3	15
19	3.54	54	60.8	10	34.70	40	49.5	17	17.52	34	15.6	18	23.25	37	40.8	17
29	4.08	52	59.8	4	35.10	39	51.2	19	17.86	33	17.4	18	23.62	36	42.5	18
Aug. 8	4.60	50	59.4	2	35.49	36	53.1	21	18.19	31	19.2	19	23.98	34	44.3	20
18	5.10	47	59.6	8	35.85	34	55.2	22	18.50	29	21.1	18	24.32	32	46.3	21
28	5.57	41	60.4	14	36.19	31	57.4	23	18.79	27	22.9	18	24.64	29	48.4	21
Sept. 7	5.98	36	61.8	18	36.50	27	59.7	24	19.06	23	24.7	17	24.93	26	50.5	21
17	6.34	28	63.6	23	36.77	24	62.1	24	19.29	21	26.4	15	25.19	22	52.6	21
27	6.62	21	65.9	26	37.01	20	64.5	24	19.50	17	27.9	14	25.41	20	54.7	19
Okt. 7	6.83	13	68.5	29	37.21	16	66.9	23	19.67	14	29.3	12	25.61	15	56.6	19
17	6.96	4	71.4	31	37.37	12	69.2	22	19.81	11	30.5	11	25.76	12	58.5	18
27	7.00	4	74.5	30	37.49	8	71.4	20	19.92	7	31.6	9	25.88	9	60.3	16
Nov. 6	6.96	10	77.5	29	37.57	4	73.4	18	19.99	5	32.5	8	25.97	5	61.9	14
16	6.86	17	80.4	27	37.61	0	75.2	16	20.04	1	33.3	5	26.02	1	63.3	13
26	6.69	24	83.1	24	37.61	4	76.8	14	20.05	1	33.8	4	26.03	2	64.6	9
Dez. 6	6.45	30	85.5	19	37.57	7	78.2	11	20.04	5	34.2	2	26.01	5	65.5	8
16	6.15	34	87.4	15	37.50	11	79.3	7	19.99	7	34.4	0	25.96	9	66.3	5
26	5.81	37	88.9	9	37.39	15	80.0	3	19.92	9	34.4	1	25.87	12	66.8	1
36	5.44		89.8		37.24		80.3		19.83		34.3		25.75		66.9	
Mittl. Ort	1.68		94.8		33.16		45.6		15.91		5.5		21.69		34.5	
sec δ, tg δ	2.129		−1.880		1.344		+0.898		1.087		+0.425		1.214		+0.689	

1913	76) 55 Cassiopej.				78) Lac. μ Forn.				80) 67 Ceti.				85) ξ² Ceti.			
	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. —	Δ	AR.	Δ	Dekl. —	Δ	AR.	Δ	Dekl. +	Δ
	2ʰ 7ᵐ		66° 6′		2ʰ 9ᵐ		31° 7′		2ʰ 12ᵐ		6° 48′		2ʰ 23ᵐ		8° 4′	
Jan. 0	38.33	36	82.8	10	5.46	15	60.8	9	39.08	10	81.1	8	32.31	9	19.7	5
10	37.97	41	83.8	4	5.31	16	61.7	6	38.98	11	81.9	7	32.22	11	19.2	6
20	37.56	42	84.2	2	5.15	17	62.3	2	38.87	13	82.6	5	32.11	12	18.6	5
30	37.14	43	84.0	6	4.98	18	62.5	3	38.74	13	83.1	2	31.99	14	18.1	5
Febr. 9	36.71	41	83.4	11	4.80	16	62.2	6	38.61	13	83.3	1	31.85	13	17.6	4
19	36.30	38	82.3	16	4.64	15	61.6	11	38.48	12	83.4	1	31.72	12	17.2	3
März 1	35.92	32	80.7	20	4.49	14	60.5	14	38.36	10	83.3	4	31.60	11	16.9	3
11	35.60	25	78.7	23	4.35	10	59.1	17	38.26	8	82.9	6	31.49	8	16.6	1
21	35.35	16	76.4	24	4.25	7	57.4	21	38.18	5	82.3	9	31.41	5	16.5	1
31	35.19	6	74.0	25	4.18	2	55.3	24	38.13	1	81.4	11	31.36	2	16.6	2
April 10	35.13	5	71.5	25	4.16	1	52.9	26	38.12	3	80.3	13	31.34	3	16.8	4
20	35.18	17	69.0	27	4.17	7	50.3	31	38.15	9	79.0	17	31.37	9	17.2	7
30	35.35	27	66.3	21	4.24	12	47.2	29	38.24	13	77.3	17	31.46	12	17.9	9
Mai 10	35.62	36	64.2	19	4.36	17	44.3	30	38.37	17	75.6	20	31.58	17	18.8	11
20	35.98	45	62.3	14	4.53	22	41.3	30	38.54	21	73.6	20	31.75	21	19.9	13
30	36.43	53	60.9	11	4.75	25	38.3	29	38.75	24	71.6	22	31.96	24	21.2	15
Juni 9	36.96	58	59.8	6	5.00	29	35.4	28	38.99	27	69.4	22	32.20	28	22.7	16
19	37.54	63	59.2	2	5.29	31	32.6	26	39.26	30	67.2	21	32.48	30	24.3	18
29	38.17	65	59.0	3	5.60	33	30.0	22	39.56	31	65.1	21	32.78	31	26.1	18
Juli 9	38.82	66	59.3	8	5.93	35	27.8	20	39.87	32	63.0	20	33.09	32	27.9	18
19	39.48	67	60.1	13	6.28	34	25.8	16	40.19	31	61.0	18	33.41	32	29.7	17
29	40.15	65	61.4	16	6.62	34	24.2	12	40.50	31	59.2	15	33.73	32	31.4	17
Aug. 8	40.80	61	63.0	20	6.96	32	23.0	7	40.81	30	57.7	13	34.05	30	33.1	16
18	41.41	58	65.0	23	7.28	30	22.3	2	41.11	27	56.4	10	34.35	28	34.7	13
28	41.99	53	67.3	27	7.58	27	22.1	2	41.38	25	55.4	7	34.63	27	36.0	12
Sept. 7	42.52	47	70.0	29	7.85	24	22.3	7	41.63	23	54.7	3	34.90	23	37.2	10
17	42.99	41	72.9	30	8.09	21	23.0	12	41.86	19	54.4	1	35.13	21	38.2	8
27	43.40	34	75.9	32	8.30	16	24.2	15	42.05	17	54.3	3	35.34	18	39.0	5
Okt. 7	43.74	28	79.1	32	8.46	13	25.7	18	42.22	13	54.6	6	35.52	15	39.5	3
17	44.02	19	82.3	32	8.59	9	27.5	20	42.35	10	55.2	7	35.67	12	39.8	1
27	44.21	12	85.5	32	8.68	4	29.5	22	42.45	7	55.9	9	35.79	9	39.9	0
Nov. 6	44.33	3	88.7	30	8.72	2	31.7	22	42.52	5	56.8	11	35.88	6	39.9	2
16	44.36	5	91.7	28	8.74	2	33.9	21	42.57	1	57.9	11	35.94	3	39.7	3
26	44.31	13	94.5	25	8.72	6	36.0	20	42.58	2	59.0	11	35.97	0	39.4	4
Dez. 6	44.18	20	97.0	22	8.66	9	38.0	18	42.56	4	60.1	11	35.97	2	39.0	5
16	43.98	27	99.2	17	8.57	11	39.8	15	42.52	7	61.2	10	35.95	6	38.5	5
26	43.71	34	100.9	13	8.46	13	41.3	12	42.45	9	62.2	8	35.89	7	38.0	5
36	43.37		102.2		8.33		42.5		42.36		63.0		35.82		37.5	
Mittl. Ort	38.29		62.3		4.63		53.8		38.57		81.6		31.87		14.1	
sec δ, tg δ	2.470		+2.258		1.168		−0.604		1.007		−0.120		1.010		+0.142	

1913	87) 36 H. Cassiop. AR.		87) Dekl. +		90) μ. Hydri. AR.		90) Dekl. —		89) ν Arietis. AR.		89) Dekl. +		91) δ Ceti. AR.		91) Dekl. —	
	$2^h 29^m$		72° 26′		$2^h 33^m$		79° 28′		$2^h 33^m$		21° 35′		$2^h 35^m$		0° 2′	
Jan. 0	44.54	49	40.4	14	35.42	115	93.7	8	52.77	9	18.7	2	1.85	8	43.3	8
10	44.05	55	41.8	9	34.27	121	94.5	2	52.68	12	18.5	3	1.77	11	44.1	6
20	43.50	59	42.7	3	33.06	126	94.7	4	52.56	12	18.2	4	1.66	13	44.7	5
30	42.91	62	43.0	4	31.80	122	94.3	9	52.44	15	17.8	5	1.53	13	45.2	4
Febr. 9	42.29	60	42.6	8	30.58	119	93.4	16	52.29	15	17.3	7	1.40	13	45.6	3
19	41.69	56	41.8	14	29.39	112	91.8	20	52.14	14	16.6	6	1.27	13	45.9	1
März 1	41.13	50	40.4	18	28.27	102	89.8	25	52.00	12	16.0	7	1.14	12	46.0	1
11	40.63	40	38.6	21	27.25	90	87.3	29	51.88	10	15.3	7	1.02	10	45.9	2
21	40.23	29	36.5	25	26.35	74	84.4	33	51.78	7	14.6	7	0.92	6	45.7	5
31	39.94	16	34.0	26	25.61	59	81.1	35	51.71	2	13.9	5	0.86	3	45.2	7
April 10	39.78	2	31.4	27	25.02	40	77.6	36	51.69	2	13.4	4	0.83	2	44.5	8
20	39.76	11	28.7	26	24.62	21	74.0	37	51.71	7	13.0	2	0.85	6	43.7	11
30	39.87	29	26.1	27	24.41	1	70.3	42	51.78	13	12.8	1	0.91	11	42.6	15
Mai 10	40.16	40	23.4	23	24.40	21	66.1	37	51.91	17	12.9	3	1.02	16	41.1	15
20	40.56	52	21.1	19	24.61	38	62.4	36	52.08	22	13.2	5	1.18	19	39.6	17
30	41.08	63	19.2	15	24.99	57	58.8	33	52.30	26	13.7	8	1.37	23	37.9	18
Juni 9	41.71	71	17.7	11	25.56	74	55.5	30	52.56	28	14.5	10	1.60	26	36.1	19
19	42.42	79	16.6	6	26.30	88	52.5	26	52.84	32	15.5	12	1.86	29	34.2	20
29	43.21	82	16.0	2	27.18	101	49.9	22	53.16	33	16.7	14	2.15	30	32.2	19
Juli 9	44.03	87	15.8	4	28.19	111	47.7	16	53.49	33	18.1	15	2.45	32	30.3	19
19	44.90	86	16.2	8	29.30	115	46.1	11	53.82	35	19.6	16	2.77	31	28.4	18
29	45.76	87	17.0	12	30.45	119	45.0	5	54.17	33	21.2	17	3.08	31	26.6	17
Aug. 8	46.63	83	18.2	17	31.64	118	44.5	1	54.50	32	22.9	16	3.39	30	24.9	14
18	47.46	79	19.9	21	32.82	114	44.6	8	54.82	31	24.5	16	3.69	29	23.5	11
28	48.25	74	22.0	23	33.96	104	45.4	13	55.13	28	26.1	16	3.98	26	22.4	9
Sept. 7	48.99	68	24.3	27	35.00	92	46.7	18	55.41	26	27.7	15	4.24	24	21.5	7
17	49.67	59	27.0	30	35.92	77	48.5	24	55.67	23	29.2	13	4.48	21	20.8	3
27	50.26	51	30.0	32	36.69	59	50.9	27	55.90	20	30.5	12	4.69	19	20.5	1
Okt. 7	50.77	42	33.2	33	37.28	39	53.6	30	56.10	17	31.7	11	4.88	16	20.4	2
17	51.19	32	36.5	33	37.67	17	56.6	32	56.27	14	32.8	9	5.04	12	20.6	4
27	51.51	20	39.8	34	37.84	6	59.8	32	56.41	11	33.7	8	5.16	10	21.0	5
Nov. 6	51.71	10	43.2	33	37.78	28	63.0	31	56.52	8	34.5	6	5.26	7	21.5	7
16	51.81	2	46.5	32	37.50	49	66.1	30	56.60	5	35.1	4	5.33	4	22.2	9
26	51.79	14	49.7	28	37.01	68	69.1	26	56.65	1	35.5	4	5.37	1	23.1	8
Dez. 6	51.65	25	52.5	25	36.33	86	71.7	22	56.66	2	35.9	2	5.38	2	23.9	8
16	51.40	35	55.0	22	35.47	100	73.9	17	56.64	5	36.1	0	5.36	5	24.7	9
26	51.05	45	57.2	16	34.47	113	75.6	12	56.59	7	36.1	1	5.31	8	25.6	8
36	50.60		58.8		33.34		76.8		56.52		36.0		5.23		26.4	
Mittl. Ort	44.03		19.1		29.31		80.6		52.36		8.7		1.29		46.7	
sec δ, tg δ	3.314		+3.160		5.479		−5.386		1.075		+0.396		1.000		−0.001	

1913	93) ϑ Persei. AR.		Dekl. +		97) π Ceti. AR.		Dekl. −		98) μ Ceti. AR.		Dekl. +		100) 41 Arietis. AR.		Dekl. +	
	$2^h\ 38^m$	Δ	48° 51′	Δ	$2^h\ 39^m$	Δ	14° 13′	Δ	$2^h\ 40^m$	Δ	9° 44′	Δ	$2^h\ 44^m$	Δ	26° 54′	Δ
Jan. 0	15.39	16	57.2	8	59.62	11	36.7	11	14.72	9	56.9	4	51.99	9	20.7	0
10	15.23	20	58.0	3	59.51	12	37.8	8	14.63	10	56.5	5	51.90	12	20.7	1
20	15.03	22	58.3	0	59.39	14	38.6	5	14.53	12	56.0	5	51.78	14	20.6	3
30	14.81	23	58.3	5	59.25	14	39.1	2	14.41	14	55.5	5	51.64	16	20.3	5
Febr. 9	14.58	23	57.8	8	59.11	15	39.3	0	14.27	14	55.0	4	51.48	16	19.8	6
19	14.35	23	57.0	11	58.96	14	39.3	3	14.13	13	54.6	4	51.32	15	19.2	8
März 1	14.12	20	55.9	14	58.82	13	39.0	6	14.00	12	54.2	3	51.17	13	18.4	8
11	13.92	16	54.5	17	58.69	11	38.4	8	13.88	10	53.9	2	51.04	11	17.6	9
21	13.76	11	52.8	17	58.58	7	37.6	12	13.78	6	53.7	0	50.93	8	16.7	8
31	13.65	5	51.1	19	58.51	4	36.4	14	13.72	3	53.7	1	50.85	4	15.9	8
April 10	13.60	1	49.2	18	58.47	0	35.0	17	13.69	1	53.8	3	50.81	1	15.1	7
20	13.61	8	47.4	17	58.47	4	33.3	19	13.70	6	54.1	5	50.82	6	14.4	5
30	13.69	16	45.7	16	58.51	10	31.4	22	13.76	12	54.6	8	50.88	13	13.9	3
Mai 10	[2] 13.85	22	44.1	13	[3] 58.61	14	29.2	23	[3] 13.88	16	55.4	10	[1] 51.01	17	13.6	1
20	14.07	28	42.8	9	58.75	18	26.9	24	14.04	20	56.4	11	51.18	21	13.5	2
30	14.35	33	41.9	6	58.93	23	24.5	24	14.24	23	57.5	14	51.39	26	13.7	4
Juni 9	14.68	37	41.3	3	59.16	25	22.1	24	14.47	27	58.9	15	51.65	29	14.1	7
19	15.05	41	41.0	1	59.41	28	19.7	24	14.74	29	60.4	16	51.94	32	14.8	9
29	15.46	43	41.1	5	59.69	30	17.3	22	15.03	31	62.0	17	52.26	33	15.7	12
Juli 9	15.89	45	41.6	8	59.99	32	15.1	21	15.34	32	63.7	17	52.59	35	16.9	13
19	16.34	45	42.4	11	60.31	31	13.0	18	15.66	32	65.4	17	52.94	36	18.2	14
29	16.79	45	43.5	15	60.62	32	11.2	16	15.98	32	67.1	16	53.30	34	19.6	16
Aug. 8	17.24	43	45.0	17	60.94	30	9.6	12	16.30	31	68.7	15	53.64	34	21.2	16
18	17.67	41	46.7	19	61.24	29	8.4	8	16.61	29	70.2	14	53.98	32	22.8	16
28	18.08	38	48.6	21	61.53	27	7.6	5	16.90	27	71.6	12	54.30	30	24.4	17
Sept. 7	18.46	35	50.7	22	61.80	24	7.1	0	17.17	25	72.8	10	54.60	28	26.1	16
17	18.81	32	52.9	24	62.04	22	7.1	3	17.42	23	73.8	8	54.88	25	27.7	15
27	19.13	28	55.3	24	62.26	19	7.4	6	17.65	19	74.6	6	55.13	22	29.2	14
Okt. 7	19.41	23	57.7	24	62.45	16	8.0	10	17.84	17	75.2	4	55.35	19	30.6	13
17	19.64	19	60.1	24	62.61	13	9.0	12	18.01	14	75.6	2	55.54	16	31.9	12
27	19.83	15	62.5	23	62.74	9	10.2	15	18.15	11	75.8	0	55.70	13	33.1	10
Nov. 6	19.98	10	64.8	22	62.83	6	11.7	15	18.26	8	75.8	2	55.83	9	34.1	9
16	20.08	5	67.0	21	62.89	3	13.2	15	18.34	5	75.6	2	55.92	6	35.0	8
26	20.13	1	69.1	18	62.92	0	14.7	16	18.39	2	75.4	4	55.98	3	35.8	6
Dez. 6	20.14	5	70.9	16	62.92	3	16.3	15	18.41	2	75.0	4	56.01	1	36.4	5
16	20.09	9	72.5	12	62.89	6	17.8	13	18.39	4	74.6	4	56.00	5	36.9	3
26	20.00	14	73.7	9	62.83	9	19.1	11	18.35	7	74.2	5	55.95	7	37.2	2
36	19.86		74.6		62.74		20.2		18.48		73.7		55.88		37.4	
Mittl. Ort	14.99		40.0		58.88		36.0		14.20		50.4		51.53		9.1	
sec δ, tg δ	1.520		+1.145		1.032		−0.253		1.015		+0.172		1.121		+0.507	

1913	101) β Fornacis. AR.		Dekl. —		102) τ² Eridani. AR.		Dekl. —		103) τ Persei. AR.		Dekl. +		104) η Eridani. AR.		Dekl. —	
	2ʰ 45ᵐ		32° 45′		2ʰ 47ᵐ		21° 21′		2ʰ 48ᵐ		52° 24′		2ʰ 52ᵐ		9° 14′	
Jan. 0	27.99	14	80.5	13	6.37	11	46.6	12	5.35	18	43.7	9	11.31	9	36.9	10
10	27.85	16	81.8	9	6.26	13	47.8	9	5.17	21	44.6	6	11.22	11	37.9	8
20	27.69	18	82.7	5	6.13	15	48.7	5	4.96	24	45.2	1	11.11	13	38.7	6
30	27.51	19	83.2	0	5.98	16	49.2	2	4.72	26	45.3	3	10.98	14	39.3	3
Febr. 9	27.32	19	83.2	4	5.82	16	49.4	1	4.46	26	45.0	8	10.84	15	39.6	2
19	27.13	19	82.8	8	5.66	16	49.3	4	4.20	25	44.2	10	10.69	14	39.8	1
März 1	26.94	17	82.0	12	5.50	14	48.9	8	3.95	23	43.2	14	10.55	13	39.7	4
11	26.77	14	80.8	16	5.36	12	48.1	12	3.72	19	41.8	17	10.42	11	39.3	6
21	26.63	11	79.2	20	5.24	9	46.9	14	3.53	14	40.1	19	10.31	9	38.7	9
31	26.52	8	77.2	22	5.15	6	45.5	18	3.39	7	38.2	19	10.22	5	37.8	11
April 10	26.44	2	75.0	25	5.09	1	43.7	20	3.32	1	36.3	19	10.17	0	36.7	13
20	26.42	2	72.5	28	5.08	3	41.7	22	3.31	6	34.4	18	10.17	3	35.4	16
30	26.44	8	69.7	33	5.11	9	39.5	27	3.37	16	32.6	19	10.20	9	33.8	20
Mai 10	[1] 26.52	13	66.4	30	[4] 5.20	13	36.8	26	[5] 3.53	21	30.7	16	[6] 10.29	14	31.8	20
20	26.65	17	63.4	31	5.33	17	34.2	26	3.74	28	29.1	11	10.43	17	29.8	21
30	26.82	22	60.3	30	5.50	22	31.6	27	4.02	34	28.0	9	10.60	21	27.7	22
Juni 9	27.04	26	57.3	30	5.72	24	28.9	27	4.36	39	27.1	5	10.81	25	25.5	22
19	27.30	29	54.3	27	5.96	28	26.2	25	4.75	42	26.6	1	11.06	27	23.3	22
29	27.59	32	51.6	25	6.24	31	23.7	24	5.17	46	26.5	2	11.33	30	21.1	22
Juli 9	27.91	33	49.1	22	6.55	31	21.3	21	5.63	47	26.7	7	11.63	31	18.9	20
19	28.24	34	46.9	19	6.86	32	19.2	19	6.10	48	27.4	9	11.94	31	16.9	18
29	28.58	34	45.0	13	7.18	32	17.3	15	6.58	47	28.3	13	12.25	31	15.1	16
Aug. 8	28.92	34	43.7	9	7.50	32	15.8	11	7.05	46	29.6	16	12.56	30	13.5	13
18	29.26	31	42.8	4	7.82	30	14.7	6	7.51	45	31.2	18	12.86	30	12.2	9
28	29.57	30	42.4	1	8.12	27	14.1	3	7.96	42	33.0	21	13.16	27	11.3	6
Sept. 7	29.87	27	42.5	6	8.39	26	13.8	2	8.38	38	35.1	22	13.43	25	10.7	3
17	30.14	24	43.1	10	8.65	22	14.0	6	8.76	35	37.3	23	13.68	22	10.4	1
27	30.38	21	44.1	15	8.87	20	14.6	10	9.11	31	39.6	25	13.90	20	10.5	4
Okt. 7	30.59	16	45.6	19	9.07	16	15.6	13	9.42	27	42.1	25	14.10	17	10.9	7
17	30.75	13	47.5	21	9.23	14	16.9	16	9.69	22	44.6	25	14.27	14	11.6	10
27	30.88	9	49.6	23	9.37	9	18.5	18	9.91	17	47.1	25	14.41	11	12.6	11
Nov. 6	30.97	5	51.9	24	9.46	6	20.3	19	10.08	12	49.6	24	14.52	8	13.7	13
16	31.02	1	54.3	24	9.52	3	22.2	19	10.20	7	52.0	22	14.60	5	15.0	13
26	31.03	3	56.7	23	9.55	1	24.1	19	10.27	1	54.2	21	14.65	1	16.3	14
Dez. 6	31.00	6	59.0	20	9.54	3	26.0	18	10.28	4	56.3	17	14.66	1	17.7	13
16	30.94	10	61.0	19	9.51	7	27.8	16	10.24	10	58.0	15	14.65	5	19.0	13
26	30.84	12	62.9	15	9.44	10	29.4	13	10.14	15	59.5	12	14.60	7	20.3	11
36	30.72		64.4		9.34		30.7		9.99		60.7		14.53		21.4	
Mittl. Ort	26.94		75.1		5.52		44.2		4.83		25.8		10.58		38.1	
sec δ, tg δ	1.189		—0.644		1.074		—0.391		1.639		+1.299		1.013		—0.163	

1913	105) 47 H. Cephei. AR.	Diff.	Dekl. +	Diff.	106) ϑ Eridani. AR.	Diff.	Dekl. −	Diff.
	$2^h\,54^m$		79° 4′		$2^h\,54^m$		40° 38′	
Jan. 0	29.80	77	56.5	19	58.95	17	76.8	14
10	29.03	89	58.4	13	58.78	19	78.2	10
20	28.14	98	59.7	8	58.59	21	79.2	5
30	27.16	102	60.5	1	58.38	23	79.7	0
Febr. 9	26.14	102	60.6	5	58.15	23	79.7	4
19	25.12	98	60.1	10	57.92	22	79.3	10
März 1	24.14	90	59.1	16	57.70	21	78.3	14
11	23.24	76	57.5	20	57.49	18	76.9	18
21	22.48	60	55.5	24	57.31	14	75.1	22
31	21.88	40	53.1	26	57.17	10	72.9	25
April 10	21.48	20	50.5	28	57.07	6	70.4	28
20	21.28	3	47.7	28	57.01	0	67.6	30
30	21.31	28	44.9	30	57.01	6	64.6	35
Mai 10	21.59	47	41.9	26	57.07	11	61.1	33
20	22.06	68	39.3	23	57.18	16	57.8	33
30	22.74	86	37.0	20	57.34	22	54.5	33
Juni 9	23.60	100	35.0	16	57.56	25	51.2	31
19	24.60	114	33.4	11	57.81	30	48.1	29
29	25.74	122	32.3	7	58.11	33	45.2	26
Juli 9	26.96	130	31.6	2	58.44	35	42.6	23
19	28.26	133	31.4	3	58.79	35	40.3	18
29	29.59	134	31.7	8	59.14	37	38.5	13
Aug. 8	30.93	133	32.5	12	59.51	36	37.2	9
18	32.26	128	33.7	17	59.87	34	36.3	2
28	33.54	122	35.4	21	60.21	33	36.1	2
Sept. 7	34.76	113	37.5	24	60.54	29	36.3	8
17	35.89	103	39.9	28	60.83	26	37.1	13
27	36.92	90	42.7	30	61.09	23	38.4	18
Okt. 7	37.82	75	45.7	33	61.32	18	40.2	21
17	38.57	60	49.0	34	61.50	14	42.3	25
27	39.17	43	52.4	34	61.64	10	44.8	26
Nov. 6	39.60	23	55.8	35	61.74	5	47.4	27
16	39.83	5	59.3	34	61.79	0	50.1	27
26	39.88	14	62.7	32	61.79	4	52.8	26
Dez. 6	39.74	34	65.9	30	61.75	8	55.4	23
16	39.40	53	68.9	25	61.67	12	57.7	21
26	38.87	67	71.4	22	61.55	15	59.8	16
36	38.20		73.6		61.40		61.4	
Mittl. Ort	28.14		34.9		57.66		70.1	
sec δ, tg δ	5.277		+5.181		1.318		−0.859	

1913	107) α Ceti. AR.	Diff.	Dekl. +	Diff.	108) γ Persei. AR.	Diff.	Dekl. +	Diff.
	$2^h\,57^m$		3° 44′		$2^h\,58^m$		53° 9′	
Jan. 0	44.43	8	61.4	6	29.81	17	77.3	11
10	44.35	10	60.8	6	29.64	21	78.4	6
20	44.25	12	60.2	6	29.43	25	79.0	2
30	44.13	14	59.6	4	29.18	26	79.2	1
Febr. 9	43.99	14	59.2	3	28.92	27	79.1	6
19	43.85	14	58.9	3	28.65	26	78.5	10
März 1	43.71	13	58.6	0	28.39	24	77.5	13
11	43.58	11	58.6	1	28.15	21	76.2	16
21	43.47	8	58.7	2	27.94	15	74.6	18
31	43.39	4	58.9	4	27.79	9	72.8	19
April 10	43.35	1	59.3	6	27.70	3	70.9	20
20	43.34	4	59.9	9	27.67	5	68.9	19
30	43.38	9	60.8	11	27.72	14	67.0	19
Mai 10	43.47	14	61.9	13	27.86	20	65.1	16
20	43.61	18	63.2	14	28.06	27	63.5	12
30	43.79	21	64.6	16	28.33	34	62.3	10
Juni 9	44.00	25	66.2	17	28.67	38	61.3	6
19	44.25	28	67.9	18	29.05	42	60.7	3
29	44.53	30	69.7	17	29.47	46	60.4	1
Juli 9	44.83	31	71.4	18	29.93	48	60.5	3
19	45.14	31	73.2	17	30.41	48	60.8	9
29	45.45	31	74.9	16	30.89	49	61.7	12
Aug. 8	45.76	31	76.5	14	31.38	47	62.9	14
18	46.07	30	77.9	12	31.85	46	64.3	17
28	46.37	27	79.1	10	32.31	43	66.0	19
Sept. 7	46.64	26	80.1	8	32.74	40	67.9	22
17	46.90	23	80.9	4	33.14	37	70.1	22
27	47.13	20	81.3	2	33.51	33	72.3	25
Okt. 7	47.33	18	81.5	1	33.84	29	74.8	24
17	47.51	16	81.6	3	34.13	24	77.2	25
27	47.67	12	81.3	4	34.37	20	79.7	25
Nov. 6	47.79	9	80.9	5	34.57	14	82.2	24
16	47.88	6	80.4	6	34.71	8	84.6	23
26	47.94	4	79.8	8	34.79	3	86.9	21
Dez. 6	47.98	1	79.0	7	34.82	3	89.0	18
16	47.97	3	78.3	7	34.79	9	90.8	16
26	47.94	6	77.6	7	34.70	14	92.4	12
36	47.88		76.9		34.56		93.6	
Mittl. Ort	43.78		56.3		29.18		59.4	
sec δ, tg δ	1.002		+0.066		1.668		+1.335	

1913	109) ρ Persei. AR.	Δ	Dekl. +	Δ	110) μ Horologii. AR.	Δ	Dekl. −	Δ
	$2^h\,59^m$		38° 30′		$3^h\,1^m$		60° 3′	
Jan. 0	36.32	11	28.6	6	35.88	32	99.3	15
10	36.21	14	29.2	2	35.56	36	100.8	10
20	36.07	17	29.4	0	35.20	39	101.8	4
30	35.90	18	29.4	3	34.81	41	102.2	3
Febr. 9	35.72	19	29.1	6	34.40	40	101.9	7
19	35.53	19	28.5	9	34.00	39	101.2	13
März 1	35.34	17	27.6	10	33.61	36	99.9	18
11	35.17	15	26.6	12	33.25	33	98.1	23
21	35.02	10	25.4	13	32.92	28	95.8	26
31	34.92	6	24.1	13	32.64	22	93.2	31
April 10	34.86	1	22.8	13	32.42	15	90.1	33
20	34.85	5	21.5	12	32.27	7	86.8	35
30	34.90	12	20.3	11	32.20	0	83.3	40
Mai 10	[8] 35.02	17	19.2	7	[8] 32.20	8	79.3	37
20	35.19	22	18.5	6	32.28	15	75.6	36
30	35.41	27	17.9	2	32.43	23	72.0	35
Juni 9	35.68	31	17.7	0	32.66	30	68.5	34
19	35.99	34	17.7	3	32.96	36	65.1	30
29	36.33	37	18.0	7	33.32	41	62.1	26
Juli 9	36.70	39	18.7	8	33.73	45	59.5	22
19	37.09	39	19.5	11	34.18	48	57.3	17
29	37.48	39	20.6	14	34.66	49	55.6	12
Aug. 8	37.87	38	22.0	15	35.15	50	54.4	5
18	38.25	36	23.5	16	35.65	48	53.9	0
28	38.61	35	25.1	17	36.13	45	53.9	7
Sept. 7	38.96	32	26.8	18	36.58	42	54.6	12
17	39.28	29	28.6	19	37.00	37	55.8	18
27	39.57	27	30.5	18	37.37	31	57.6	23
Okt. 7	39.84	23	32.3	18	37.68	25	59.9	27
17	40.07	20	34.1	18	37.93	17	62.6	29
27	40.27	16	35.9	17	38.10	11	65.5	31
Nov. 6	40.43	12	37.6	15	38.21	2	68.6	32
16	40.55	8	39.1	15	38.23	5	71.8	32
26	40.63	4	40.6	13	38.18	11	75.0	29
Dez. 6	40.67	0	41.9	11	38.07	19	77.9	26
16	40.67	4	43.0	9	37.88	25	80.5	23
26	40.63	9	43.9	7	37.63	30	82.8	18
36	40.54		44.6		37.33		84.6	
Mittl. Ort	35.76		14.0		33.63		89.9	
sec δ, tg δ	1.278		+0.796		2.004		−1.737	

1913	111) β Persei. AR.	Δ	Dekl. +	Δ	114) δ Arietis. AR.	Δ	Dekl. +	Δ
	$3^h\,2^m$		40° 37′		$3^h\,6^m$		19° 23′	
Jan. 0	30.73	11	31.5	6	39.68	7	63.7	1
10	30.62	15	32.1	4	39.61	11	63.6	3
20	30.47	17	32.5	0	39.50	12	63.3	3
30	30.30	19	32.5	3	39.38	14	63.0	4
Febr. 9	30.11	20	32.2	5	39.24	15	62.6	5
19	29.91	20	31.7	9	39.09	15	62.1	5
März 1	29.71	18	30.8	10	38.94	14	61.6	5
11	29.53	15	29.8	13	38.80	12	61.1	5
21	29.38	12	28.5	13	38.68	10	60.6	5
31	29.26	6	27.2	14	38.58	5	60.1	4
April 10	29.20	2	25.8	14	38.53	1	59.7	2
20	29.18	5	24.4	13	38.52	4	59.5	1
30	29.23	12	23.1	12	38.56	10	59.4	1
Mai 10	[8] 29.35	17	21.9	9	[9] 38.66	13	59.5	3
20	29.52	22	21.0	7	38.79	19	59.8	5
30	29.74	27	20.3	3	38.98	22	60.3	8
Juni 9	30.01	32	20.0	1	39.20	26	61.1	9
19	30.33	35	19.9	2	39.46	30	62.0	11
29	30.68	38	20.1	5	39.76	31	63.1	12
Juli 9	31.06	39	20.6	8	40.07	33	64.3	14
19	31.45	40	21.4	10	40.40	33	65.7	14
29	31.85	40	22.4	13	40.73	33	67.1	15
Aug. 8	32.25	39	23.7	14	41.06	33	68.6	15
18	32.64	38	25.1	17	41.39	31	70.1	14
28	33.02	35	26.8	17	41.70	30	71.5	13
Sept. 7	33.37	33	28.5	18	42.00	28	72.8	12
17	33.70	31	30.3	19	42.28	25	74.0	11
27	34.01	28	32.2	19	42.53	23	75.1	10
Okt. 7	34.29	24	34.1	19	42.76	20	76.1	8
17	34.53	20	36.0	19	42.96	18	76.9	6
27	34.73	17	37.9	18	43.14	15	77.5	6
Nov. 6	34.90	12	39.7	17	43.29	11	78.1	4
16	35.02	9	41.4	16	43.40	8	78.5	3
26	35.11	4	43.0	14	43.48	5	78.8	2
Dez. 6	35.15	0	44.4	12	43.53	1	79.0	0
16	35.15	5	45.6	10	43.54	3	79.0	0
26	35.10	8	46.6	7	43.51	5	79.0	1
36	35.02		47.3		43.46		78.9	
Mittl. Ort	30.15		16.3		39.06		54.0	
sec δ, tg δ	1.317		+0.858		1.060		+0.352	

1913	117) 12 Eridani. AR.		117) 12 Eridani. Dekl. −		115) 48 H. Cephei. AR.		115) 48 H. Cephei. Dekl. +		120) α Persei. AR.		120) α Persei. Dekl. +		121) ο Tauri. AR.		121) ο Tauri. Dekl. +	
	$3^h 8^m$		29° 19′		$3^h 9^m$		77° 24′		$3^h 18^m$		49° 33′		$3^h 20^m$		8° 43′	
Jan. 0	23.54	12	49.9	14	16.09	61	80.9	19	7.02	13	25.3	11	8.49	6	30.9	5
10	23.42	14	51.3	10	15.48	73	82.8	15	6.89	17	26.4	7	8.43	10	30.4	5
20	23.28	17	52.3	7	14.75	82	84.3	9	6.72	21	27.1	4	8.33	12	29.9	5
30	23.11	18	53.0	3	13.93	87	85.2	4	6.51	23	27.5	0	8.21	13	29.4	4
Febr. 9	22.93	19	53.3	2	13.06	89	85.6	3	6.28	25	27.5	4	8.08	15	29.0	4
19	22.74	18	53.1	5	12.17	86	85.3	9	6.03	25	27.1	8	7.93	14	28.6	3
März 1	22.56	18	52.6	10	11.31	79	84.4	14	5.78	23	26.3	11	7.79	15	28.3	2
11	22.38	15	51.6	13	10.52	69	83.0	18	5.55	20	25.2	13	7.64	12	28.1	1
21	22.23	13	50.3	17	9.83	56	81.2	22	5.35	16	23.9	16	7.52	10	28.0	0
31	22.10	8	48.6	20	9.27	40	79.0	25	5.19	10	22.3	17	7.42	6	28.0	2
April 10	22.02	5	46.6	23	8.87	21	76.5	27	5.09	5	20.6	17	7.36	2	28.2	3
20	21.97	0	44.3	25	8.66	2	73.8	28	5.04	2	18.9	17	7.34	2	28.5	4
30	21.97	5	41.8	27	8.64	17	71.0	27	5.06	9	17.2	16	7.36	6	28.9	7
Mai 10	22.02	11	39.1	32	8.81	39	68.3	29	5.15	18	15.6	16	7.42	13	29.6	10
20	[10] 22.13	15	35.9	30	[10] 9.20	55	65.4	23	[12] 5.33	24	14.0	12	[13] 7.55	16	30.6	11
30	22.28	20	32.9	30	9.75	71	63.1	21	5.57	29	12.8	10	7.71	20	31.7	13
Juni 9	22.48	23	29.9	29	10.46	85	61.0	17	5.86	34	11.8	6	7.91	24	33.0	14
19	22.71	27	27.0	28	11.31	97	59.3	13	6.20	38	11.2	4	8.15	27	34.4	15
29	22.98	30	24.2	25	12.28	106	58.0	8	6.58	42	10.8	0	8.42	29	35.9	15
Juli 9	23.28	31	21.7	23	13.34	112	57.2	4	7.00	44	10.8	4	8.71	31	37.4	16
19	23.59	33	19.4	20	14.46	118	56.8	1	7.44	45	11.2	6	9.02	31	39.0	16
29	23.92	33	17.4	16	15.64	120	56.9	5	7.89	45	11.8	10	9.33	32	40.6	15
Aug. 8	24.25	33	15.8	11	16.84	118	57.4	10	8.34	46	12.8	12	9.65	31	42.1	13
18	24.58	31	14.7	6	18.02	115	58.4	15	8.80	44	14.0	15	9.96	30	43.4	12
28	24.89	31	14.1	1	19.17	111	59.9	19	9.24	42	15.5	16	10.26	29	44.6	11
Sept. 7	25.20	28	14.0	3	20.28	104	61.8	23	9.66	40	17.1	19	10.55	27	45.7	8
17	25.48	25	14.3	9	21.32	96	64.1	26	10.06	36	19.0	20	10.82	25	46.5	6
27	25.73	22	15.2	12	22.28	85	66.7	28	10.42	34	21.0	21	11.07	23	47.1	4
Okt. 7	25.95	19	16.4	17	23.13	73	69.5	31	10.76	29	23.1	21	11.30	21	47.5	2
17	26.14	15	18.1	19	23.86	60	72.6	32	11.05	26	25.2	22	11.51	17	47.7	0
27	26.29	12	20.0	22	24.46	45	75.8	34	11.31	21	27.4	22	11.68	15	47.7	1
Nov. 6	26.41	8	22.2	23	24.91	30	79.2	34	11.52	17	29.6	22	11.83	12	47.6	3
16	26.49	4	24.5	23	25.21	13	82.6	33	11.69	11	31.8	20	11.95	9	47.3	4
26	26.53	0	26.8	23	25.34	5	85.9	32	11.80	6	33.8	20	12.04	6	46.9	5
Dez. 6	26.53	4	29.1	21	25.29	21	89.1	29	11.86	1	35.8	17	12.10	2	46.4	5
16	26.49	7	31.2	19	25.08	39	92.0	26	11.87	5	37.5	15	12.12	2	45.9	5
26	26.42	11	33.1	16	24.69	52	94.6	23	11.82	10	39.0	12	12.10	5	45.4	6
36	26.31		34.7		24.17		96.9		11.72		40.2		12.05		44.8	
Mittl. Ort	22.46		46.5		14.22		59.8		6.25		8.5		7.76		23.9	
sec δ, tg δ	1.147		−0.562		4.590		+4.480		1.541		+1.173		1.012		+0.153	

1913	122) 2 H. Camelop. AR.	Δ	122) Dekl. +	Δ	125) *f* Tauri. AR.	Δ	125) Dekl. +	Δ
	$3^h\ 21^m$		59° 38′		$3^h\ 26^m$		12° 38′	
Jan. 0	61.77	19	35.9	15	4.79	6	29.0	4
10	61.58	25	37.4	11	4.73	9	28.6	3
20	61.33	29	38.5	7	4.64	12	28.3	4
30	61.04	32	39.2	1	4.52	14	27.9	4
Febr. 9	60.72	33	39.3	2	4.38	15	27.5	4
19	60.39	34	39.1	8	4.23	15	27.1	4
März 1	60.05	32	38.3	11	4.08	14	26.7	3
11	59.73	27	37.2	16	3.94	13	26.4	2
21	59.46	23	35.6	18	3.81	10	26.2	2
31	59.23	15	33.8	20	3.71	7	26.0	0
April 10	59.08	8	31.8	21	3.64	3	26.0	1
20	59.00	0	29.7	22	3.61	2	26.1	2
30	59.00	10	27.5	21	3.63	6	26.3	5
Mai 10	59.10	20	25.4	21	3.69	12	26.8	7
20	[13] 59.30	26	23.3	17	[14] 3.81	16	27.5	9
30	59.56	35	21.6	15	3.97	21	28.4	10
Juni 9	59.91	41	20.1	11	4.18	23	29.4	12
19	60.32	46	19.0	8	4.41	27	30.6	13
29	60.78	51	18.2	4	4.68	29	31.9	14
Juli 9	61.29	53	17.8	0	4.97	31	33.3	14
19	61.82	56	17.8	4	5.28	32	34.7	15
29	62.38	56	18.2	7	5.60	32	36.2	14
Aug. 8	62.94	56	18.9	11	5.92	32	37.6	13
18	63.50	55	20.0	13	6.24	31	38.9	13
28	64.05	52	21.3	17	6.55	29	40.2	11
Sept. 7	64.57	50	23.0	19	6.84	28	41.3	9
17	65.07	46	24.9	22	7.12	26	42.2	8
27	65.53	43	27.1	24	7.38	24	43.0	5
Okt. 7	65.96	37	29.5	24	7.62	21	43.5	4
17	66.33	32	31.9	26	7.83	19	43.9	2
27	66.65	26	34.5	27	8.02	16	44.1	1
Nov. 6	66.91	20	37.2	26	8.18	12	44.2	1
16	67.11	14	39.8	26	8.30	10	44.1	1
26	67.25	6	42.4	25	8.40	7	44.0	3
Dez. 6	67.31	1	44.9	22	8.47	2	43.7	3
16	67.30	9	47.1	20	8.49	1	43.4	4
26	67.21	14	49.1	17	8.48	4	43.0	3
36	67.07		50.8		8.44		42.7	
Mittl. Ort	60.78		17.3		4.04		20.9	
sec δ, tg δ	1.978		+1.707		1.025		+0.224	

1913	127) ε Eridani. AR.	Δ	127) Dekl. −	Δ	131) δ Persei. AR.	Δ	131) Dekl. +	Δ
	$3^h\ 28^m$		9° 44′		$3^h\ 36^m$		47° 30′	
Jan. 0	50.75	7	65.7	12	44.36	10	53.0	11
10	50.68	11	66.9	9	44.26	15	54.1	8
20	50.57	12	67.8	7	44.11	19	54.9	5
30	50.45	15	68.5	5	43.92	21	55.4	1
Febr. 9	50.30	15	69.0	3	43.71	23	55.5	2
19	50.15	16	69.3	0	43.48	24	55.3	6
März 1	49.99	16	69.3	3	43.24	23	54.7	9
11	49.83	13	69.0	5	43.01	21	53.8	12
21	49.70	12	68.5	8	42.80	17	52.6	13
31	49.58	8	67.7	10	42.63	12	51.3	16
April 10	49.50	4	66.7	13	42.51	6	49.7	16
20	49.46	0	65.4	15	42.45	0	48.1	16
30	49.46	4	63.9	17	42.45	6	46.5	15
Mai 10	49.50	10	62.2	21	42.51	15	45.0	15
20	[15] 49.60	14	60.1	21	[17] 42.66	20	43.5	12
30	49.74	18	58.0	22	42.86	26	42.3	10
Juni 9	49.92	21	55.8	22	43.12	32	41.3	7
19	50.13	25	53.6	22	43.44	36	40.6	4
29	50.38	27	51.4	21	43.80	39	40.2	1
Juli 9	50.65	30	49.3	20	44.19	41	40.1	2
19	50.95	30	47.3	19	44.60	44	40.3	5
29	51.25	30	45.4	16	45.04	44	40.8	8
Aug. 8	51.55	31	43.8	13	45.48	44	41.6	10
18	51.86	30	42.5	10	45.92	43	42.6	12
28	52.16	28	41.5	6	46.35	41	43.8	14
Sept. 7	52.44	27	40.9	3	46.76	40	45.2	16
17	52.71	25	40.6	1	47.16	38	46.8	18
27	52.96	22	40.7	4	47.54	34	48.6	19
Okt. 7	53.18	20	41.1	7	47.88	31	50.5	19
17	53.38	17	41.8	11	48.19	27	52.4	19
27	53.55	14	42.9	12	48.46	24	54.3	20
Nov. 6	53.69	12	44.1	14	48.70	18	56.3	20
16	53.81	8	45.5	15	48.88	14	58.3	19
26	53.89	4	47.0	15	49.02	9	60.2	19
Dez. 6	53.93	1	48.5	15	49.11	4	62.1	16
16	53.94	2	50.0	14	49.15	2	63.7	15
26	53.92	6	51.4	13	49.13	7	65.2	12
36	53.86		52.7		49.06		66.4	
Mittl. Ort	49.85		68.1		43.46		36.8	
sec δ, tg δ	1.015		−0.172		1.481		+1.092	

1913	134) ν Persei.				138) 5 H. Camelop.				139) η Tauri.				140) τ⁶ Eridani.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	3h 39m		42° 18′		3h 41m		71° 3′		3h 42m		23° 50′		3h 43m		23° 29′	
Jan. 0	17.56	8	31.5	9	11.08	30	75.2	21	19.40	5	23.6	1	7.36	8	82.2	17
10	17.48	13	32.4	6	10.78	40	77.3	17	19.35	9	23.7	1	7.28	12	83.9	12
20	17.35	16	33.0	4	10.38	48	79.0	11	19.26	12	23.8	2	7.16	15	85.1	10
30	17.19	19	33.4	0	9.90	53	80.1	6	19.14	14	23.6	2	7.01	16	86.1	6
Febr. 9	17.00	21	33.4	2	9.37	57	80.7	0	19.00	16	23.4	3	6.85	18	86.7	3
19	16.79	22	33.2	6	8.80	57	80.7	4	18.84	17	23.1	4	6.67	18	87.0	1
März 1	16.57	20	32.6	8	8.23	54	80.3	10	18.67	16	22.7	5	6.49	18	86.9	6
11	16.37	19	31.8	10	7.69	49	79.3	15	18.51	15	22.2	6	6.31	17	86.3	8
21	16.18	15	30.8	12	7.20	42	77.8	19	18.36	11	21.6	5	6.14	14	85.5	12
31	16.03	11	29.6	13	6.78	32	75.9	22	18.25	9	21.1	6	6.00	11	84.3	16
April 10	15.92	5	28.3	14	6.46	20	73.7	23	18.16	4	20.5	5	5.89	7	82.7	18
20	15.87	0	26.9	13	6.26	8	71.4	25	18.12	0	20.0	3	5.82	3	80.9	21
30	15.87	6	25.6	13	6.18	5	68.9	26	18.12	5	19.7	2	5.79	1	78.8	23
Mai 10	15.93	14	24.3	12	6.23	21	66.3	27	18.17	12	19.5	1	5.80	8	76.5	28
20	[18]16.07	18	23.1	9	[18]6.44	32	63.6	23	[18]18.29	15	19.4	1	[19]5.88	11	73.7	26
30	16.25	24	22.2	7	6.76	44	61.3	20	18.44	20	19.5	3	5.99	16	71.1	28
Juni 9	16.49	29	21.5	4	7.20	55	59.3	18	18.64	25	19.8	6	6.15	21	68.3	27
19	16.78	33	21.1	2	7.75	63	57.5	14	18.89	27	20.4	7	6.36	23	65.6	26
29	17.11	36	20.9	0	8.38	71	56.1	10	19.16	30	21.1	8	6.59	27	63.0	25
Juli 9	17.47	39	20.9	4	9.09	76	55.1	7	19.46	33	21.9	10	6.86	29	60.5	23
19	17.86	40	21.3	6	9.85	80	54.4	2	19.79	33	22.9	10	7.15	31	58.2	20
29	18.26	41	21.9	9	10.65	83	54.2	2	20.12	34	23.9	12	7.46	31	56.2	17
Aug. 8	18.67	41	22.8	10	11.48	84	54.4	7	20.46	34	25.1	12	7.77	31	54.5	13
18	19.08	39	23.8	12	12.32	83	55.1	10	20.80	33	26.3	12	8.08	31	53.2	9
28	19.47	39	25.0	14	13.15	81	56.1	15	21.13	32	27.5	12	8.39	30	52.3	4
Sept. 7	19.86	37	26.4	15	13.96	77	57.6	17	21.45	31	28.7	11	8.69	29	51.9	1
17	20.23	35	27.9	17	14.73	73	59.3	21	21.76	29	29.8	10	8.98	27	52.0	5
27	20.58	32	29.6	16	15.46	67	61.4	24	22.05	26	30.8	10	9.25	24	52.5	10
Okt. 7	20.90	29	31.2	16	16.13	60	63.8	26	22.31	24	31.8	8	9.49	22	53.5	13
17	21.19	26	32.8	17	16.73	52	66.4	28	22.55	22	32.6	8	9.71	18	54.8	17
27	21.45	21	34.5	17	17.25	43	69.2	30	22.77	19	33.4	6	9.89	15	56.5	20
Nov. 6	21.66	18	36.2	17	17.68	33	72.2	30	22.96	16	34.0	6	10.04	12	58.5	22
16	21.84	15	37.9	17	18.01	22	75.2	31	23.12	12	34.6	5	10.16	9	60.7	22
26	21.99	9	39.6	15	18.23	11	78.3	29	23.24	9	35.1	4	10.25	4	62.9	22
Dez. 6	22.08	4	41.1	14	18.34	2	81.2	28	23.33	4	35.5	3	10.29	1	65.1	22
16	22.12	1	42.5	12	18.32	13	84.0	26	23.37	1	35.8	2	10.30	4	67.3	20
26	22.11	5	43.7	10	18.19	25	86.6	22	23.38	4	36.0	2	10.26	6	69.3	18
36	22.06		44.7		17.94		88.8		23.34		36.2		10.20		71.1	
Mittl. Ort	16.69		16.4		9.23		55.8		18.60		12.6		6.24		82.0	
sec δ, tg δ	1.352		+0.910		3.082		+2.915		1.093		+0.442		1.090		−0.435	

1913	141) β Reticuli. AR.		Dekl. −		143) g Eridani. AR.		Dekl. −		146) γ Hydri. AR.		Dekl. −		144) ζ Persei. AR.		Dekl. +	
	$3^h 43^m$		65° 4′		$3^h 46^m$		36° 27′		$3^h 48^m$		74° 29′		$3^h 48^m$		31° 37′	
Jan. 0	9.28	37	56.9	20	13.29	12	50.4	19	39.38	64	88.1	20	40.44	5	46.5	5
10	8.91	43	58.9	15	13.17	16	52.3	14	38.74	75	90.1	14	40.39	10	47.0	3
20	8.48	48	60.4	9	13.01	19	53.7	11	37.99	81	91.5	9	40.29	13	47.3	1
30	8.00	50	61.3	3	12.82	20	54.8	7	37.18	86	92.4	3	40.16	16	47.4	0
Febr. 9	7.50	52	61.6	2	12.62	23	55.5	1	36.32	87	92.7	3	40.00	17	47.4	3
19	6.98	51	61.4	8	12.39	23	55.6	3	35.45	87	92.4	8	39.83	18	47.1	4
März 1	6.47	50	60.6	13	12.16	22	55.3	8	34.58	84	91.6	14	39.65	18	46.7	6
11	5.97	47	59.3	18	11.94	20	54.5	12	33.74	80	90.2	19	39.47	16	46.1	7
21	5.50	42	57.5	24	11.74	18	53.3	16	32.94	72	88.3	23	39.31	13	45.4	8
31	5.08	35	55.1	27	11.56	15	51.7	20	32.22	63	86.0	27	39.18	10	44.6	8
April 10	4.73	29	52.4	30	11.41	11	49.7	23	31.59	52	83.3	31	39.08	5	43.8	9
20	4.44	20	49.4	33	11.30	5	47.4	26	31.07	40	80.2	33	39.03	1	42.9	8
30	4.24	12	46.1	35	11.25	1	44.8	29	30.67	27	76.9	35	39.02	5	42.1	7
Mai 10	4.12	3	42.6	40	11.24	5	41.9	33	30.40	13	73.4	36	39.07	10	41.4	5
20	[19] 4.09	7	38.6	37	[19] 11.29	10	38.6	32	30.27	2	69.8	40	39.17	17	40.9	4
30	4.16	17	34.9	36	11.39	16	35.4	32	[20] 30.29	16	65.8	36	[20] 39.34	21	40.5	1
Juni 9	4.33	25	31.3	35	11.55	20	32.2	31	30.45	29	62.2	35	39.55	25	40.4	0
19	4.58	33	27.8	32	11.75	24	29.1	30	30.74	43	58.7	32	39.80	29	40.4	3
29	4.91	40	24.6	30	11.99	28	26.1	28	31.17	54	55.5	29	40.09	32	40.7	4
Juli 9	5.31	47	21.6	25	12.27	30	23.3	25	31.71	64	52.6	25	40.41	34	41.1	7
19	5.78	50	19.1	21	12.57	32	20.8	21	32.35	72	50.1	20	40.75	35	41.8	8
29	6.28	54	17.0	15	12.89	34	18.7	18	33.07	78	48.1	15	41.10	36	42.6	10
Aug. 8	6.82	56	15.5	10	13.23	34	16.9	13	33.85	82	46.6	9	41.46	36	43.6	10
18	7.38	56	14.5	3	13.57	34	15.6	7	34.67	83	45.7	3	41.82	36	44.6	12
28	7.94	55	14.2	3	13.91	33	14.9	2	35.50	83	45.4	3	42.18	34	45.8	12
Sept. 7	8.49	52	14.5	9	14.24	32	14.7	4	36.33	77	45.7	10	42.52	33	47.0	12
17	9.01	47	15.4	15	14.56	29	15.1	9	37.10	71	46.7	16	42.85	31	48.2	12
27	9.48	42	16.9	20	14.85	26	16.0	13	37.81	63	48.3	21	43.16	30	49.4	12
Okt. 7	9.90	35	18.9	26	15.11	23	17.3	19	38.44	52	50.4	25	43.46	26	50.6	12
17	10.25	27	21.5	29	15.34	20	19.2	22	38.96	38	52.9	30	43.72	24	51.8	11
27	10.52	18	24.4	31	15.54	16	21.4	25	39.34	25	55.9	32	43.96	20	52.9	11
Nov. 6	10.70	10	27.5	33	15.70	11	23.9	26	39.59	10	59.1	33	44.16	18	54.0	10
16	10.80	0	30.8	34	15.81	7	26.5	28	39.69	5	62.4	34	44.34	14	55.0	10
26	10.80	9	34.2	32	15.88	3	29.3	28	39.64	20	65.8	32	44.48	9	56.0	8
Dez. 6	10.71	18	37.4	30	15.91	2	32.1	26	39.44	35	69.0	30	44.57	6	56.8	8
16	10.53	27	40.4	27	15.89	6	34.7	24	39.09	49	72.0	27	44.63	1	57.6	7
26	10.26	34	43.1	23	15.83	10	37.1	21	38.60	60	74.7	23	44.64	3	58.3	5
36	9.92		45.4		15.73		39.2		38.00		77.0		44.61		58.8	
Mittl. Ort	6.26		50.2		11.89		47.7		34.45		81.3		39.58		33.8	
sec δ, tg δ	2.373		−2.152		1.244		−0.739		3.742		−3.606		1.174		+0.616	

1913	145) 9 H. Camelop. AR.	Δ	145) Dekl. +	Δ	147) ε Persei. AR.	Δ	147) Dekl. +	Δ	148) ξ Persei. AR.	Δ	148) Dekl. +	Δ	149) γ Eridani. AR.	Δ	149) Dekl. —	Δ
	$3^h 49^m$		60° 51′		$3^h 51^m$		39° 45′		$3^h 53^m$		35° 32′		$3^h 53^m$		13° 44′	
Jan. 0	43.86	15	36.0	18	61.60	6	48.0	9	19.88	5	43.5	6	59.20	6	77.3	14
10	43.71	22	37.8	14	61.54	11	48.9	6	19.83	10	44.1	5	59.14	10	78.7	12
20	43.49	29	39.2	9	61.43	15	49.5	4	19.73	14	44.6	3	59.04	12	79.9	9
30	43.20	32	40.1	5	61.28	18	49.9	1	19.59	16	44.9	0	58.92	14	80.8	6
Febr. 9	42.88	35	40.6	1	61.10	19	50.0	2	19.43	19	44.9	2	58.78	16	81.4	3
19	42.53	36	40.7	4	60.91	21	49.8	4	19.24	19	44.7	4	58.62	17	81.7	1
März 1	42.17	34	40.3	9	60.70	20	49.4	7	19.05	19	44.3	6	58.45	17	81.8	3
11	41.83	32	39.4	13	60.50	19	48.7	8	18.86	17	43.7	8	58.28	15	81.5	5
21	41.51	27	38.1	16	60.31	15	47.9	11	18.69	14	42.9	9	58.13	13	81.0	8
31	41.24	20	36.5	18	60.16	12	46.8	11	18.55	11	42.0	10	58.00	11	80.2	11
April 10	41.04	13	34.7	21	60.04	6	45.7	13	18.44	6	41.0	10	57.89	7	79.1	14
20	40.91	5	32.6	21	59.98	1	44.4	12	18.38	1	40.0	10	57.82	2	77.7	16
30	40.86	5	30.5	21	59.97	4	43.2	11	18.37	4	39.0	9	57.80	2	76.1	18
Mai 10	40.91	13	28.4	21	60.01	11	42.1	10	18.41	10	38.1	8	57.82	6	74.3	21
20	41.04 (20)	24	26.3	21	60.12 (21)	18	41.1	9	18.51 (21)	17	37.3	6	57.88 (21)	12	72.2	24
30	41.28	31	24.2	17	60.30	22	40.2	6	18.68	21	36.7	4	58.00	16	69.8	22
Juni 9	41.59	38	22.5	15	60.52	27	39.6	4	18.89	26	36.3	2	58.16	19	67.6	24
19	41.97	45	21.0	11	60.79	31	39.2	2	19.15	29	36.1	0	58.35	23	65.2	23
29	42.42	49	19.9	7	61.10	34	39.0	1	19.44	33	36.1	3	58.58	26	62.9	23
Juli 9	42.91	54	19.2	4	61.44	37	39.1	3	19.77	35	36.4	5	58.84	28	60.6	21
19	43.45	56	18.8	1	61.81	38	39.4	6	20.12	37	36.9	6	59.12	29	58.5	19
29	44.01	58	18.7	3	62.19	39	40.0	7	20.49	37	37.5	9	59.41	31	56.6	17
Aug. 8	44.59	59	19.0	7	62.58	40	40.7	9	20.86	37	38.4	9	59.72	30	54.9	13
18	45.18	57	19.7	10	62.98	38	41.6	11	21.23	37	39.3	11	60.02	30	53.6	10
28	45.75	57	20.7	13	63.36	38	42.7	12	21.60	36	40.4	12	60.32	30	52.6	6
Sept. 7	46.32	54	22.0	16	63.74	37	43.9	13	21.96	35	41.6	12	60.62	28	52.0	2
17	46.86	51	23.6	18	64.11	34	45.2	14	22.31	33	42.8	13	60.90	27	51.8	2
27	47.37	48	25.4	21	64.45	32	46.6	15	22.64	31	44.1	13	61.17	25	52.0	5
Okt. 7	47.85	44	27.5	22	64.77	30	48.1	15	22.95	28	45.4	13	61.42	22	52.5	10
17	48.29	38	29.7	24	65.07	26	49.6	15	23.23	25	46.7	13	61.64	19	53.5	12
27	48.67	33	32.1	26	65.33	23	51.1	15	23.48	22	48.0	12	61.83	17	54.7	15
Nov. 6	49.00	26	34.7	26	65.56	20	52.6	15	23.70	19	49.2	13	62.00	14	56.2	17
16	49.26	20	37.3	25	65.76	15	54.1	14	23.89	15	50.5	11	62.14	10	57.9	18
26	49.46	12	39.8	25	65.91	11	55.5	14	24.04	11	51.6	11	62.24	6	59.7	18
Dez. 6	49.58	4	42.3	24	66.02	6	56.9	12	24.15	6	52.7	10	62.30	3	61.5	18
16	49.62	4	44.7	22	66.08	1	58.1	11	24.21	1	53.7	9	62.33	0	63.3	17
26	49.58	11	46.9	19	66.09	4	59.2	9	24.22	3	54.6	8	62.33	5	65.0	15
36	49.47		48.8		66.05		60.1		24.19		55.4		62.28		66.5	
Mittl. Ort	42.51		18.1		60.67		33.7		18.97		30.0		58.17		79.6	
sec δ, tg δ	2.053		+1.794		1.301		+0.832		1.229		+0.714		1.029		−0.245	

1913	150) λ Tauri. AR.		Dekl. +		151) ν Tauri. AR.		Dekl. +		152) c Persei. AR.		Dekl. +		154) o¹ Eridani. AR.		Dekl. −	
	3h 55m		12° 14′		3h 58m		5° 44′		4h 2m		47° 28′		4h 7m		7° 3′	
Jan. 0	52.36		51.1		32.51		61.7		21.53		67.6		38.08		45.5	
10	52.32	4	50.7	4	32.47	4	61.0	7	21.45	8	68.8	12	38.04	4	46.7	12
20	52.24	8	50.3	4	32.39	8	60.4	6	21.33	12	69.8	10	37.96	8	47.7	10
30	52.14	10	50.0	3	32.29	10	59.9	5	21.16	17	70.5	7	37.85	11	48.6	9
Febr. 9	52.01	13	49.6	4	32.16	13	59.4	5	20.95	21	70.9	4	37.72	13	49.2	6
19	51.86	15	49.3	3	32.01	15	59.1	3	20.72	23	70.9	0	37.57	15	49.6	4
März 1	51.70	16	49.0	3	31.86	15	58.8	3	20.48	24	70.5	4	37.40	17	49.8	2
11	51.55	15	48.7	3	31.71	15	58.7	1	20.24	24	69.9	6	37.24	16	49.7	1
21	51.41	14	48.5	2	31.56	15	58.7	0	20.02	22	69.0	9	37.09	15	49.4	3
31	51.29	12	48.4	1	31.44	12	58.8	1	19.83	19	67.8	12	36.95	14	48.9	5
April 10	51.19	10	48.4	0	31.35	9	59.1	3	19.68	15	66.4	14	36.85	10	48.1	8
20	51.14	5	48.5	1	31.29	6	59.5	4	19.59	9	64.9	15	36.78	7	47.1	10
30	51.13	1	48.8	3	31.28	1	60.1	6	19.56	3	63.4	15	36.74	4	45.8	13
Mai 10	51.16	3	49.2	4	31.31	3	60.9	8	19.59	3	61.8	16	36.76	2	44.3	15
20	51.25	9	49.8	6	31.38	7	61.9	10	19.69	10	60.4	14	36.81	5	42.7	16
30	[22] 51.39	14	50.6	8	[23] 31.51	13	63.1	12	[23] 19.87	18	59.0	14	[25] 36.92	11	40.7	20
Juni 9	51.56	17	51.6	10	31.68	17	64.4	13	20.10	23	57.9	11	37.07	15	38.7	20
19	51.77	21	52.6	10	31.88	20	65.8	14	20.38	28	57.0	9	37.26	19	36.7	20
29	52.02	25	53.8	12	32.12	24	67.3	15	20.71	33	56.4	6	37.48	22	34.7	20
Juli 9	52.29	27	55.1	13	32.38	26	68.8	15	21.08	37	56.0	4	37.73	25	32.7	20
19	52.59	30	56.4	13	32.67	29	70.3	15	21.48	40	55.9	1	38.00	27	30.7	20
29	52.90	31	57.7	13	32.97	30	71.8	15	21.91	43	56.1	2	38.29	29	29.0	17
Aug. 8	53.21	31	59.0	13	33.28	31	73.2	14	22.34	43	56.6	5	38.59	30	27.4	16
18	53.53	32	60.2	12	33.59	31	74.5	13	22.78	44	57.2	6	38.89	30	26.0	14
28	53.84	31	61.3	11	33.89	30	75.5	10	23.22	44	58.1	9	39.19	30	25.0	10
Sept. 7	54.15	31	62.3	10	34.19	30	76.4	9	23.64	42	59.3	12	39.49	30	24.3	7
17	54.44	29	63.1	8	34.48	29	77.0	6	24.06	42	60.6	13	39.77	28	23.9	4
27	54.72	28	63.7	6	34.75	27	77.4	4	24.45	39	62.1	15	40.05	28	23.9	0
Okt. 7	54.97	25	64.1	4	35.00	25	77.6	2	24.82	37	63.7	16	40.30	25	24.2	3
17	55.21	24	64.3	2	35.24	24	77.5	1	25.17	35	65.3	16	40.53	23	24.9	7
27	55.42	21	64.4	1	35.45	21	77.2	3	25.48	31	67.1	18	40.74	21	25.8	9
Nov. 6	55.61	19	64.3	1	35.63	18	76.8	4	25.75	27	68.9	18	40.92	18	27.0	12
16	55.77	16	64.1	2	35.78	15	76.2	6	25.97	22	70.8	19	41.08	16	28.3	13
26	55.90	13	63.9	2	35.91	13	75.5	7	26.15	18	72.6	18	41.20	12	29.8	15
Dez. 6	55.99	9	63.5	4	36.00	9	74.8	7	26.28	13	74.4	18	41.29	9	31.3	15
16	56.04	5	63.1	4	36.05	5	74.0	8	26.36	8	76.1	17	41.34	5	32.8	15
26	56.06	2	62.7	4	36.07	2	73.2	8	26.37	1	77.7	16	41.35	1	34.3	15
36	56.04	2	62.3	4	36.04	3	72.5	7	26.33	4	79.0	13	41.33	2	35.6	13
Mittl. Ort	51.48		42.8		31.60		54.8		20.41		52.1		37.07		49.7	
sec δ, tg δ	1.023		+0.217		1.005		+0.101		1.479		+1.091		1.008		−0.124	

1913	155) α Horologii. AR.	Δ	Dekl. —	Δ	156) α Reticuli. AR.	Δ	Dekl. —	Δ	160) v^4 Eridani. AR.	Δ	Dekl. —	Δ	162) δ Tauri. AR.	Δ	Dekl. +	Δ
	4h 11m		42° 29′		4h 13m		62° 40′		4h 14m		34° 0′		4h 17m		17° 20′	
Jan. 0	8.68	13	92.6	22	20.91	29	92.9	24	37.47	9	37.5	21	55.90	3	30.7	1
10	8.55	17	94.8	18	20.62	36	95.3	19	37.38	14	39.6	17	55.87	6	30.6	2
20	8.38	21	96.6	14	20.26	41	97.2	14	37.24	16	41.3	14	55.81	10	30.4	2
30	8.17	23	98.0	9	19.85	45	98.6	8	37.08	20	42.7	9	55.71	13	30.2	3
Febr. 9	7.94	26	98.9	4	19.40	48	99.4	3	36.88	21	43.6	4	55.58	14	29.9	2
19	7.68	27	99.3	1	18.92	48	99.7	3	36.67	22	44.0	0	55.44	16	29.7	3
März 1	7.41	26	99.2	6	18.44	48	99.4	9	36.45	23	44.0	4	55.28	17	29.4	2
11	7.15	25	98.6	11	17.96	46	98.5	13	36.22	21	43.6	9	55.11	16	29.2	3
21	6.90	22	97.5	16	17.50	42	97.2	19	36.01	19	42.7	13	54.95	13	28.9	3
31	6.68	20	95.9	19	17.08	37	95.3	23	35.82	17	41.4	17	54.82	11	28.6	2
April 10	6.48	15	94.0	23	16.71	31	93.0	27	35.65	12	39.7	20	54.71	7	28.4	1
20	6.33	11	91.7	26	16.40	24	90.3	30	35.53	9	37.7	24	54.64	3	28.3	0
30	6.22	5	89.1	29	16.16	16	87.3	33	35.44	3	35.3	26	54.61	2	28.3	1
Mai 10	6.17	0	86.2	32	16.00	9	84.0	35	35.41	1	32.7	28	54.63	7	28.4	2
20	6.17	7	83.0	35	15.91	0	80.5	40	35.42	8	29.9	33	54.70	12	28.6	5
30	[26] 6.24	12	79.5	33	[26] 15.91	11	76.5	36	[27] 35.50	12	26.6	30	[27] 54.82	16	29.1	5
Juni 9	6.36	18	76.2	33	16.02	18	72.9	35	35.62	17	23.6	32	54.98	20	29.6	7
19	6.54	21	72.9	32	16.20	26	69.4	34	35.79	21	20.4	29	55.18	24	30.3	8
29	6.75	27	69.7	29	16.46	33	66.0	31	36.00	25	17.5	28	55.42	26	31.1	10
Juli 9	7.02	29	66.8	27	16.79	39	62.9	28	36.25	28	14.7	26	55.68	29	32.1	10
19	7.31	33	64.1	24	17.18	44	60.1	24	36.53	31	12.1	23	55.97	31	33.1	10
29	7.64	34	61.7	19	17.62	47	57.7	18	36.84	32	9.8	19	56.28	32	34.1	11
Aug. 8	7.98	36	59.8	14	18.09	51	55.9	13	37.16	33	7.9	15	56.60	32	35.2	10
18	8.34	36	58.4	8	18.60	52	54.6	8	37.49	33	6.4	9	56.92	32	36.2	10
28	8.70	35	57.6	3	19.12	51	53.8	1	37.82	32	5.5	4	57.24	32	37.2	8
Sept. 7	9.05	35	57.3	3	19.63	51	53.7	6	38.14	32	5.1	1	57.56	31	38.0	8
17	9.40	32	57.6	8	20.14	47	54.3	12	38.46	30	5.2	6	57.87	29	38.8	6
27	9.72	30	58.4	14	20.61	43	55.5	17	38.76	28	5.8	12	58.16	28	39.4	5
Okt. 7	10.02	27	59.8	19	21.04	37	57.2	23	39.04	26	7.0	16	58.44	26	39.9	3
17	10.29	23	61.7	24	21.41	31	59.5	27	39.30	22	8.6	21	58.70	24	40.2	3
27	10.52	19	64.1	26	21.72	23	62.2	31	39.52	19	10.7	24	58.94	22	40.5	1
Nov. 6	10.71	14	66.7	29	21.95	16	65.3	33	39.71	14	13.1	26	59.16	18	40.6	1
16	10.85	10	69.6	30	22.11	7	68.6	34	39.85	11	15.7	27	59.34	16	40.7	1
26	10.95	4	72.6	31	22.18	2	72.0	34	39.96	7	18.4	28	59.50	12	40.6	1
Dez. 6	10.99	0	75.7	29	22.16	9	75.4	32	40.03	2	21.2	27	59.62	8	40.5	1
16	10.99	6	78.6	27	22.07	19	78.6	29	40.05	3	23.9	26	59.70	4	40.4	2
26	10.93	10	81.3	25	21.88	26	81.5	27	40.02	7	26.5	22	59.74	1	40.2	1
36	10.83		83.8		21.62		84.2		39.95		28.7		59.73		40.1	
Mittl. Ort	7.02		90.6		18.04		89.0		36.04		37.0		54.93		21.2	
sec δ, tg δ	1.356		−0.916		2.179		−1.936		1.206		−0.675		1.048		+0.312	

1913	164) ε Tauri. AR.	Diff.	164) ε Tauri. Dekl. +	Diff.	168) α Tauri. AR.	Diff.	168) α Tauri. Dekl. +	Diff.	169) ν Eridani. AR.	Diff.	169) ν Eridani. Dekl. —	Diff.	171) α Doradus. AR.	Diff.	171) α Doradus. Dekl. —	Diff.
	$4^h 23^m$		18° 59′		$4^h 30^m$		16° 20′		$4^h 31^m$		3° 31′		$4^h 32^m$		55° 12′	
Jan. 0	33.07	2	27.6	1	56.62	1	15.9	3	59.33	2	41.2	12	9.29	18	89.5	26
10	33.05	6	27.5	1	56.61	5	15.6	2	59.31	6	42.4	10	9.11	25	92.1	21
20	32.99	10	27.4	1	56.56	9	15.4	2	59.25	10	43.4	9	8.86	29	94.2	17
30	32.89	12	27.3	2	56.47	13	15.2	2	59.15	13	44.3	6	8.57	33	95.9	11
Febr. 9	32.77	15	27.1	2	56.34	14	15.0	2	59.02	14	44.9	5	8.24	36	97.0	6
19	32.62	16	26.9	3	56.20	16	14.8	3	58.88	16	45.4	3	7.88	38	97.6	1
März 1	32.46	17	26.6	2	56.04	17	14.5	2	58.72	17	45.7	0	7.50	38	97.7	5
11	32.29	15	26.4	3	55.87	16	14.3	2	58.55	16	45.7	1	7.12	36	97.2	11
21	32.14	15	26.1	3	55.71	14	14.1	2	58.39	14	45.6	4	6.76	34	96.1	15
31	31.99	11	25.8	2	55.57	11	13.9	2	58.25	12	45.2	6	6.42	30	94.6	20
April 10	31.88	7	25.6	2	55.46	8	13.7	1	58.13	9	44.6	8	6.12	26	92.6	24
20	31.81	4	25.4	1	55.38	4	13.6	1	58.04	4	43.8	10	5.86	20	90.2	27
30	31.77	1	25.3	0	55.34	0	13.7	1	58.00	1	42.8	12	5.66	14	87.5	30
Mai 10	31.78	6	25.3	1	55.34	5	13.8	3	57.99	3	41.6	13	5.52	7	84.5	33
20	31.84	12	25.4	3	55.39	10	14.1	4	58.02	8	40.3	16	5.45	0	81.2	34
30	[29] 31.96	16	25.7	4	[31] 55.49	16	14.5	6	[31] 58.10	14	38.7	18	[31] 5.45	8	77.8	39
Juni 9	32.12	20	26.1	6	55.65	19	15.1	7	58.24	17	36.9	18	5.53	14	73.9	35
19	32.32	23	26.7	7	55.84	22	15.8	8	58.41	21	35.1	18	5.67	20	70.4	34
29	32.55	27	27.4	8	56.06	26	16.6	9	58.62	23	33.3	18	5.87	27	67.0	32
Juli 9	32.82	29	28.2	9	56.32	28	17.5	10	58.85	26	31.5	18	6.14	32	63.8	28
19	33.11	31	29.1	10	56.60	30	18.5	10	59.11	28	29.7	17	6.46	36	61.0	26
29	33.42	32	30.1	10	56.90	31	19.5	10	59.39	29	28.0	15	6.82	39	58.4	21
Aug. 8	33.74	32	31.1	10	57.21	32	20.5	9	59.68	30	26.5	13	7.21	42	56.3	15
18	34.06	33	32.1	9	57.53	32	21.4	9	59.98	30	25.2	10	7.63	43	54.8	10
28	34.39	32	33.0	8	57.85	32	22.3	8	60.28	30	24.2	7	8.06	43	53.8	4
Sept. 7	34.71	31	33.8	7	58.17	31	23.1	7	60.58	29	23.5	4	8.49	42	53.4	3
17	35.02	30	34.5	7	58.48	29	23.8	5	60.87	28	23.1	1	8.91	41	53.7	9
27	35.32	29	35.2	5	58.77	29	24.3	4	61.15	27	23.0	2	9.32	38	54.6	15
Okt. 7	35.61	26	35.7	4	59.06	27	24.7	3	61.42	25	23.2	6	9.70	34	56.1	20
17	35.87	25	36.1	3	59.33	25	25.0	1	61.67	23	23.8	8	10.04	30	58.1	25
27	36.12	22	36.4	2	59.58	22	25.1	0	61.90	20	24.6	10	10.34	24	60.6	29
Nov. 6	36.34	20	36.6	1	59.80	20	25.1	1	62.10	18	25.6	13	10.58	18	63.5	32
16	36.54	16	36.7	0	60.00	16	25.0	2	62.28	15	26.9	13	10.76	11	66.7	33
26	36.70	12	36.7	0	60.16	13	24.8	2	62.43	12	28.2	14	10.87	5	70.0	34
Dez. 6	36.82	9	36.7	0	60.29	9	24.6	2	62.55	7	29.6	14	10.92	2	73.4	33
16	36.91	4	36.7	1	60.38	6	24.4	2	62.62	4	31.0	13	10.90	10	76.7	30
26	36.95	1	36.6	1	60.44	1	24.2	3	62.66	1	32.3	12	10.80	15	79.7	28
36	36.96		36.5		60.45		23.9		62.65		33.5		10.65		82.5	
Mittl. Ort	32.07		17.8		55.60		6.6		58.26		46.8		6.99		87.7	
sec δ, tg δ	1.057		+0.344		1.042		+0.293		1.002		−0.062		1.753		−1.440	

1913	172) 53 Eridani. AR.		Dekl. −		174) τ Tauri. AR.		Dekl. +		173) Gr. 848. AR.		Dekl. +		175) 4 Camelop. AR.		Dekl. +	
	4h 34m		14° 27′		4h 37m		22° 47′		4h 37m		75° 47′		4h 40m		56° 36′	
Jan. 0	12.87s	4	81.0″	16	2.35s	1	37.4″	1	10.00s	25	22.0″	26	46.72s	6	28.9″	18
10	12.83	7	82.6	14	2.34	5	37.5	1	9.75	40	24.6	23	46.66	12	30.7	16
20	12.76	11	84.0	12	2.29	9	37.6	0	9.35	54	26.9	18	46.54	19	32.3	13
30	12.65	14	85.2	9	2.20	12	37.6	0	8.81	65	28.7	14	46.35	24	33.6	10
Febr. 9	12.51	16	86.1	5	2.08	15	37.6	1	8.16	73	30.1	8	46.11	28	34.6	5
19	12.35	17	86.6	3	1.93	17	37.5	2	7.43	77	30.9	3	45.83	31	35.1	1
März 1	12.18	18	86.9	1	1.76	17	37.3	3	6.66	78	31.2	2	45.52	32	35.2	3
11	12.00	17	86.8	3	1.59	17	37.0	3	5.88	74	31.0	8	45.20	30	34.9	6
21	11.83	16	86.5	7	1.42	15	36.7	3	5.14	69	30.2	14	44.90	28	34.3	11
31	11.67	13	85.8	9	1.27	12	36.4	4	4.45	59	28.8	17	44.62	23	33.2	13
April 10	11.54	10	84.9	12	1.15	9	36.0	3	3.86	45	27.1	21	44.39	17	31.9	16
20	11.44	6	83.7	15	1.06	5	35.7	3	3.41	32	25.0	24	44.22	11	30.3	18
30	11.38	2	82.2	17	1.01	1	35.4	2	3.09	15	22.6	26	44.11	3	28.5	19
Mai 10	11.36	2	80.5	19	1.02	4	35.2	1	2.94	1	20.0	27	44.08	4	26.6	19
20	11.38	7	78.6	21	1.06	10	35.1	0	2.95	18	17.3	26	44.12	12	24.7	18
30	11.45	13	76.5	24	1.16	16	35.1	2	3.13	38	14.7	28	44.24	22	22.9	20
Juni 9	11.58	16	74.1	23	1.32	19	35.3	3	3.51	51	11.9	24	44.46	28	20.9	16
19	11.74	19	71.8	23	1.51	23	35.6	4	4.02	65	9.5	22	44.74	34	19.3	13
29	11.93	23	69.5	23	1.74	26	36.0	6	4.67	78	7.3	18	45.08	39	18.0	11
Juli 9	12.16	25	67.2	21	2.00	29	36.6	6	5.45	88	5.5	15	45.47	44	16.9	9
19	12.41	28	65.1	20	2.29	31	37.2	8	6.33	96	4.0	11	45.91	47	16.0	5
29	12.69	29	63.1	17	2.60	32	38.0	7	7.29	103	2.9	7	46.38	51	15.5	3
Aug. 8	12.98	30	61.4	14	2.92	33	38.7	8	8.32	108	2.2	3	46.89	52	15.2	0
18	13.28	30	60.0	11	3.25	33	39.5	8	9.40	110	1.9	1	47.41	52	15.2	3
28	13.58	30	58.9	6	3.58	33	40.3	8	10.50	110	2.0	5	47.93	53	15.5	6
Sept. 7	13.88	29	58.3	3	3.91	33	41.1	7	11.60	109	2.5	9	48.46	52	16.1	9
17	14.17	28	58.0	1	4.24	31	41.8	6	12.69	106	3.4	13	48.98	51	17.0	11
27	14.45	27	58.1	5	4.55	30	42.4	5	13.75	101	4.7	17	49.49	48	18.1	13
Okt. 7	14.72	26	58.6	10	4.85	29	42.9	5	14.76	95	6.4	20	49.97	46	19.4	16
17	14.98	23	59.6	13	5.14	26	43.4	4	15.71	86	8.4	24	50.43	42	21.0	17
27	15.21	20	60.9	16	5.40	24	43.8	3	16.57	76	10.8	26	50.85	38	22.7	19
Nov. 6	15.41	17	62.5	18	5.64	22	44.1	2	17.33	64	13.4	28	51.23	33	24.6	21
16	15.58	14	64.3	19	5.86	18	44.3	3	17.97	49	16.2	30	51.56	28	26.7	21
26	15.72	11	66.2	20	6.04	14	44.6	2	18.46	34	19.2	30	51.84	21	28.8	21
Dez. 6	15.83	7	68.2	20	6.18	10	44.8	1	18.80	18	22.2	30	52.05	14	30.9	22
16	15.90	3	70.2	19	6.28	6	44.9	2	18.98	1	25.2	29	52.19	7	33.1	21
26	15.93	2	72.1	18	6.34	1	45.1	1	18.99	16	28.1	27	52.26	1	35.2	19
36	15.91		73.9		6.35		45.2		18.83		30.8		52.25		37.1	
Mittl. Ort	11.71		84.7		1.29		27.0		6.27		4.8		45.02		13.6	
sec δ, tg δ	1.033		−0.258		1.085		+0.420		4.073		+3.948		1.817		+1.517	

1913	178) 9 Camelop. AR.		178) Dekl. +		180) π^5 Orionis. AR.		180) Dekl. +		181) ι Aurigae. AR.		181) Dekl. +		182) 10 Camelop. AR.		182) Dekl. +	
	$4^h 45^m$		66° 11′		$4^h 49^m$		2° 17′		$4^h 51^m$		33° 1′		$4^h 55^m$		60° 18′	
Jan. 0	25.87	10	62.7	23	44.20	0	62.9	9	20.75	1	57.0	7	42.41	4	73.7	20
10	25.77	19	65.0	20	44.20	5	62.0	9	20.76	5	57.7	6	42.37	12	75.7	19
20	25.58	28	67.0	17	44.15	8	61.1	7	20.71	10	58.3	4	42.25	20	77.6	16
30	25.30	35	68.7	12	44.07	11	60.4	6	20.61	13	58.7	3	42.05	26	79.2	11
Febr. 9	24.95	40	69.9	8	43.96	14	59.8	4	20.48	16	59.0	2	41.79	31	80.3	8
19	24.55	44	70.7	3	43.82	16	59.4	3	20.32	18	59.2	0	41.48	34	81.1	3
März 1	24.11	46	71.0	2	43.66	16	59.1	1	20.14	20	59.2	2	41.14	36	81.4	1
11	23.65	43	70.8	7	43.50	16	59.0	0	19.94	18	59.0	4	40.78	35	81.3	5
21	23.22	40	70.1	12	43.34	15	59.0	2	19.76	18	58.6	5	40.43	32	80.8	10
31	22.82	35	68.9	15	43.19	13	59.2	4	19.58	15	58.1	6	40.11	28	79.8	13
April 10	22.47	26	67.4	18	43.06	10	59.6	5	19.43	11	57.5	7	39.83	23	78.5	15
20	22.21	18	65.6	20	42.96	5	60.1	6	19.32	6	56.8	8	39.60	15	77.0	19
30	22.03	8	63.6	23	42.91	2	60.7	9	19.26	2	56.0	7	39.45	7	75.1	20
Mai 10	21.95	2	61.3	23	42.89	2	61.6	10	19.24	4	55.3	7	39.38	2	73.1	20
20	21.97	12	59.0	23	42.91	7	62.6	12	19.28	9	54.6	6	39.40	10	71.1	20
30	22.09	26	56.7	24	42.98	13	63.8	14	19.37	16	54.0	6	39.50	21	69.1	22
Juni 9	[3] 22.35	33	54.3	20	[4] 43.11	16	65.2	14	[5] 19.53	19	53.4	3	[6] 39.71	27	66.9	18
19	22.68	42	52.3	19	43.27	19	66.6	15	19.72	24	53.1	3	39.98	34	65.1	17
29	23.10	50	50.4	15	43.46	23	68.1	15	19.96	27	52.8	0	40.32	41	63.4	14
Juli 9	23.60	56	48.9	13	43.69	25	69.6	15	20.23	30	52.8	1	40.73	46	62.0	11
19	24.16	61	47.6	9	43.94	27	71.1	14	20.53	33	52.9	2	41.19	50	60.9	9
29	24.77	65	46.7	6	44.21	29	72.5	13	20.86	35	53.1	4	41.69	54	60.0	6
Aug. 8	25.42	68	46.1	2	44.50	29	73.8	12	21.21	35	53.5	4	42.23	56	59.4	2
18	26.10	70	45.9	1	44.79	30	75.0	9	21.56	37	53.9	5	42.79	58	59.2	0
28	26.80	69	46.0	4	45.09	31	75.9	7	21.93	36	54.4	6	43.37	58	59.2	3
Sept. 7	27.49	70	46.4	8	45.40	29	76.6	5	22.29	36	55.0	7	43.95	58	59.5	7
17	28.19	67	47.2	11	45.69	29	77.1	2	22.65	35	55.7	7	44.53	56	60.2	10
27	28.86	65	48.3	15	45.98	28	77.3	1	23.00	33	56.4	7	45.09	55	61.2	12
Okt. 7	29.51	61	49.8	17	46.26	27	77.2	4	23.33	33	57.1	7	45.64	52	62.4	14
17	30.12	57	51.5	20	46.53	24	76.8	6	23.66	30	57.8	7	46.16	49	63.8	17
27	30.69	51	53.5	23	46.77	23	76.2	8	23.96	27	58.5	8	46.65	44	65.5	19
Nov. 6	31.20	43	55.8	24	47.00	20	75.4	9	24.23	25	59.3	7	47.09	38	67.4	21
16	31.63	35	58.2	25	47.20	17	74.5	11	24.48	21	60.0	8	47.47	32	69.5	22
26	31.98	27	60.7	26	47.37	13	73.4	11	24.69	18	60.8	7	47.79	26	71.7	23
Dez. 6	32.25	17	63.3	26	47.50	10	72.3	11	24.87	12	61.5	8	48.05	18	74.0	23
16	32.42	7	65.9	26	47.60	6	71.2	11	24.99	8	62.3	8	48.23	9	76.3	22
26	32.49	4	68.5	23	47.66	2	70.1	10	25.07	3	63.1	7	48.32	1	78.5	22
36	32.45		70.8		47.68		69.1		25.10		63.8		48.33		80.7	
Mittl. Ort	23.51		46.7		43.11		56.0		19.55		45.3		40.40		58.8	
sec δ, tg δ	2.478		+1.267		1.001		+0.040		1.193		+0.650		2.019		+1.754	

1913	183) ε Aurigae. AR.		Dekl. +		184) ι Tauri. AR.		Dekl. +	
	$4^h 55^m$		43° 41′		$4^h 57^m$		21° 27′	
Jan. 0	44.77	0	56.9	12	54.78	2	69.4	1
10	44.77	6	58.1	11	54.80	4	69.5	0
20	44.71	11	59.2	10	54.76	8	69.5	0
30	44.60	16	60.2	7	54.68	11	69.5	0
Febr. 9	44.44	19	60.9	4	54.57	14	69.5	1
19	44.25	22	61.3	1	54.43	16	69.4	1
März 1	44.03	23	61.4	2	54.27	17	69.3	2
11	43.80	23	61.2	4	54.10	18	69.1	2
21	43.57	20	60.8	7	53.92	15	68.9	2
31	43.37	18	60.1	9	53.77	13	68.7	2
April 10	43.19	14	59.2	10	53.64	11	68.5	3
20	43.05	8	58.2	12	53.53	6	68.2	2
30	42.97	3	57.0	13	53.47	2	68.0	1
Mai 10	42.94	3	55.7	12	53.45	3	67.9	1
20	42.97	9	54.5	12	53.48	8	67.8	0
30	43.06	17	53.3	13	53.56	13	67.8	2
Juni 9	[6]43.23	21	52.0	10	[6]53.69	17	68.0	3
19	43.44	26	51.0	8	53.86	21	68.3	4
29	43.70	30	50.2	6	54.07	24	68.7	5
Juli 9	44.00	34	49.6	5	54.31	28	69.2	6
19	44.34	37	49.1	2	54.59	29	69.8	6
29	44.71	39	48.9	0	54.88	31	70.4	7
Aug. 8	45.10	40	48.9	1	55.19	32	71.1	7
18	45.50	41	49.0	3	55.51	33	71.8	7
28	45.91	42	49.3	5	55.84	32	72.5	5
Sept. 7	46.33	41	49.8	6	56.16	33	73.0	6
17	46.74	40	50.4	8	56.49	32	73.6	4
27	47.14	39	51.2	9	56.81	31	74.0	4
Okt. 7	47.53	37	52.1	10	57.12	30	74.4	3
17	47.90	35	53.1	11	57.42	27	74.7	2
27	48.25	32	54.2	12	57.69	26	74.9	1
Nov. 6	48.57	29	55.4	13	57.95	23	75.0	1
16	48.86	24	56.7	14	58.18	20	75.1	0
26	49.10	20	58.1	14	58.38	16	75.1	0
Dez. 6	49.30	15	59.5	14	58.54	12	75.1	1
16	49.45	9	60.9	13	58.66	9	75.2	0
26	49.54	2	62.2	13	58.75	3	75.2	0
36	49.56		63.5		58.78		75.2	
Mittl. Ort	43.38		43.9		53.65		59.6	
sec δ, tg δ	1.383		+0.956		1.075		+0.393	

1913	185) η Aurigae. AR.		Dekl. +		186) ε Leporis. AR.		Dekl. −	
	$5^h 0^m$		41° 7′		$5^h 1^m$		22° 28′	
Jan. 0	26.05	1	16.5	11	47.98	2	70.6	21
10	26.06	6	17.6	10	47.96	7	72.7	18
20	26.00	10	18.6	9	47.89	11	74.5	16
30	25.90	14	19.5	6	47.78	14	76.1	11
Febr. 9	25.76	19	20.1	4	47.64	17	77.2	9
19	25.57	20	20.5	1	47.47	19	78.1	4
März 1	25.37	22	20.6	1	47.28	19	78.5	1
11	25.15	22	20.5	4	47.09	20	78.6	3
21	24.93	20	20.1	6	46.89	18	78.3	6
31	24.73	17	19.5	8	46.71	16	77.7	10
April 10	24.56	13	18.7	10	46.55	14	76.7	13
20	24.43	8	17.7	10	46.41	9	75.4	17
30	24.35	3	16.7	12	46.32	6	73.7	19
Mai 10	24.32	2	15.5	11	46.26	1	71.8	22
20	24.34	8	14.4	11	46.25	3	69.6	23
30	24.42	16	13.3	10	46.28	9	67.3	27
Juni 9	[7]24.58	20	12.3	9	[7]46.37	13	64.6	26
19	24.78	25	11.4	7	46.50	16	62.0	26
29	25.03	29	10.7	6	46.66	21	59.4	25
Juli 9	25.32	32	10.1	3	46.87	23	56.9	24
19	25.64	35	9.8	2	47.10	26	54.5	22
29	25.99	38	9.6	0	47.36	28	52.3	19
Aug. 8	26.37	38	9.6	1	47.64	29	50.4	16
18	26.75	40	9.7	3	47.93	30	48.8	12
28	27.15	40	10.0	5	48.23	31	47.6	7
Sept. 7	27.55	40	10.5	5	48.54	31	46.9	3
17	27.95	38	11.0	7	48.85	29	46.6	2
27	28.33	38	11.7	8	49.14	29	46.8	7
Okt. 7	28.71	37	12.5	9	49.43	27	47.5	11
17	29.08	34	13.4	10	49.70	26	48.6	16
27	29.42	31	14.4	10	49.96	22	50.2	19
Nov. 6	29.73	28	15.4	12	50.18	20	52.1	22
16	30.01	24	16.6	11	50.38	16	54.3	23
26	30.25	20	17.7	13	50.54	13	56.6	25
Dez. 6	30.45	15	19.0	12	50.67	9	59.1	25
16	30.60	9	20.2	12	50.76	4	61.6	24
26	30.69	4	21.4	12	50.80	0	64.0	22
36	30.73		22.6		50.80		66.2	
Mittl. Ort	24.68		4.0		46.67		74.2	
sec δ, tg δ	1.327		+0.873		1.082		−0.414	

1913	188) β Eridani. AR.		Dekl. −		192) μ Aurigae. AR.		Dekl. +		191) 19 H.Camelop. AR.		Dekl. +		193) α Aurigae. AR.		Dekl. +	
	$5^h 3^m$		5° 11′		$5^h 7^m$		38° 22′		$5^h 8^m$		79° 7′		$5^h 10^m$		45° 54′	
Jan. 0	35.49	0	47.6	14	29.72	2	68.4	10	17.35	20	76.3	29	17.11	2	50.6	14
10	35.49	5	49.0	12	29.74	4	69.4	9	17.15	42	79.2	26	17.13	5	52.0	13
20	35.44	8	50.2	10	29.70	9	70.3	7	16.73	62	81.8	22	17.08	11	53.3	11
30	35.36	11	51.2	8	29.61	13	71.0	6	16.11	79	84.0	18	16.97	15	54.4	8
Febr. 9	35.25	14	52.0	6	29.48	17	71.6	4	15.32	91	85.8	13	16.82	20	55.2	6
19	35.11	16	52.6	3	29.31	20	72.0	2	14.41	99	87.1	8	16.62	22	55.8	3
März 1	34.95	17	52.9	2	29.11	21	72.2	1	13.42	104	87.9	1	16.40	24	56.1	1
11	34.78	17	53.1	1	28.90	21	72.1	3	12.38	102	88.0	4	16.16	24	56.0	3
21	34.61	16	53.0	3	28.69	19	71.8	5	11.36	97	87.6	10	15.92	23	55.7	6
31	34.45	13	52.7	5	28.50	17	71.3	7	10.39	87	86.6	14	15.69	19	55.1	9
April 10	34.32	11	52.2	8	28.33	13	70.6	9	9.52	72	85.2	19	15.50	15	54.2	10
20	34.21	8	51.4	10	28.20	9	69.7	9	8.80	56	83.3	22	15.35	11	53.2	13
30	34.13	3	50.4	11	28.11	3	68.8	10	8.24	37	81.1	26	15.24	5	51.9	13
Mai 10	34.10	0	49.3	14	28.08	2	67.8	9	7.87	16	78.5	27	15.19	1	50.6	14
20	34.10	6	47.9	15	28.10	7	66.9	9	7.71	7	75.8	27	15.20	8	49.2	13
30	34.16	10	46.4	18	28.17	15	66.0	9	7.78	28	73.1	28	15.28	13	47.9	13
Juni 9	[7] 34.26	14	44.6	18	[8] 28.32	18	65.1	8	8.06	54	70.3	29	15.41	22	46.6	13
19	34.40	17	42.8	18	28.50	23	64.3	6	[9] 8.60	68	67.4	25	[9] 15.63	25	45.3	11
29	34.57	21	41.0	18	28.73	28	63.7	5	9.28	86	64.9	23	15.88	29	44.2	8
Juli 9	34.78	24	39.2	18	29.01	31	63.2	3	10.14	101	62.6	19	16.17	34	43.4	7
19	35.02	26	37.4	16	29.32	33	62.9	1	11.15	114	60.7	17	16.51	37	42.7	5
29	35.28	27	35.8	15	29.65	36	62.8	0	12.29	125	59.0	12	16.88	39	42.2	3
Aug. 8	35.55	29	34.3	13	30.01	37	62.8	1	13.54	134	57.8	8	17.27	42	41.9	1
18	35.84	30	33.0	10	30.38	38	62.9	3	14.88	139	57.0	5	17.69	42	41.8	1
28	36.14	29	32.0	7	30.76	38	63.2	4	16.27	142	56.5	0	18.11	43	41.9	3
Sept. 7	36.43	30	31.3	4	31.14	39	63.6	4	17.69	143	56.5	4	18.54	42	42.2	4
17	36.73	29	30.9	0	31.53	38	64.0	6	19.12	142	56.9	9	18.96	43	42.6	6
27	37.02	28	30.9	3	31.91	36	64.6	7	20.54	138	57.8	12	19.39	41	43.2	8
Okt. 7	37.30	27	31.2	6	32.27	36	65.3	7	21.92	130	59.0	17	19.80	39	44.0	8
17	37.57	25	31.8	10	32.63	33	66.0	8	23.22	121	60.7	20	20.19	38	44.8	11
27	37.82	23	32.8	12	32.96	31	66.8	9	24.43	110	62.7	23	20.57	35	45.9	12
Nov. 6	38.05	21	34.0	13	33.27	28	67.7	9	25.53	94	65.0	27	20.92	31	47.1	13
16	38.26	17	35.3	15	33.55	24	68.6	10	26.47	76	67.7	29	21.23	27	48.4	13
26	38.43	15	36.8	16	33.79	21	69.6	10	27.23	58	70.6	30	21.50	22	49.7	15
Dez. 6	38.58	10	38.4	16	34.00	15	70.6	11	27.81	37	73.6	30	21.72	18	51.2	15
16	38.68	7	40.0	16	34.15	10	71.7	10	28.18	13	76.6	31	21.90	11	52.7	15
26	38.75	2	41.6	14	34.25	5	72.7	10	28.31	10	79.7	30	22.01	5	54.2	14
36	38.77		43.0		34.30		73.7		28.21		82.7		22.06		55.6	
Mittl. Ort	34.33		53.6		28.37		56.6		11.68		60.9		15.58		38.0	
sec δ, tg δ	1.004		−0.091		1.276		+0.792		5.305		+5.210		1.437		+1.032	

1913	194) β Orionis. AR.		Dekl. −		196) ϑ Doradus. AR.		Dekl. −		201) γ Orionis. AR.		Dekl. +		202) β Tauri. AR.		Dekl. +	
	$5^h 10^m$		8° 17′		$5^h 13^m$		67° 16′		$5^h 20^m$		6° 16′		$5^h 20^m$		28° 32′	
Jan. 0	22.55	0	59.6	15	52.83	26	58.5	30	29.01	3	25.3	9	48.74	4	15.8	4
10	22.55	3	61.1	13	52.57	37	61.5	26	29.04	2	24.4	7	48.78	2	16.2	5
20	22.52	8	62.4	12	52.20	44	64.1	22	29.02	6	23.7	6	48.76	7	16.7	3
30	22.44	12	63.6	9	51.76	51	66.3	17	28.96	10	23.1	5	48.69	10	17.0	3
Febr. 9	22.32	14	64.5	7	51.25	56	68.0	11	28.86	13	22.6	4	48.59	14	17.3	2
19	22.18	16	65.2	4	50.69	59	69.1	6	28.73	15	22.2	2	48.45	17	17.5	1
März 1	22.02	17	65.6	2	50.10	61	69.7	1	28.58	17	22.0	2	48.28	19	17.6	0
11	21.85	18	65.8	1	49.49	61	69.8	5	28.41	16	21.8	0	48.09	18	17.6	2
21	21.67	16	65.7	4	48.88	58	69.3	10	28.25	16	21.8	0	47.91	17	17.4	3
31	21.51	14	65.3	6	48.30	55	68.3	16	28.09	14	21.8	2	47.74	16	17.1	3
April 10	21.37	12	64.7	8	47.75	49	66.7	20	27.95	11	22.0	4	47.58	12	16.8	5
20	21.25	8	63.9	11	47.26	43	64.7	24	27.84	8	22.4	4	47.46	8	16.3	4
30	21.17	5	62.8	13	46.83	34	62.3	27	27.76	4	22.8	6	47.38	5	16.9	5
Mai 10	21.12	1	61.5	15	46.49	26	59.6	31	27.72	0	23.4	8	47.33	1	15.4	5
20	21.13	4	60.0	16	46.23	17	56.5	33	27.72	5	24.2	8	47.34	6	14.9	4
30	21.17	8	58.4	18	46.06	7	53.2	34	27.77	9	25.0	10	47.40	10	14.5	3
Juni 9	21.25	14	56.6	20	45.99	4	49.8	39	27.86	14	26.0	12	47.50	17	14.2	3
19	[9] 21.39	17	54.6	20	[10] 46.03	14	45.9	35	[12] 28.00	17	27.2	12	[12] 47.67	20	13.9	1
29	21.56	20	52.6	20	46.17	23	42.4	33	28.17	21	28.4	11	47.87	24	13.8	0
Juli 9	21.76	23	50.6	19	46.40	32	39.1	31	28.38	23	29.5	12	48.11	27	13.8	1
19	21.99	25	48.7	17	46.72	40	36.0	28	28.61	26	30.7	12	48.38	29	13.9	2
29	22.24	27	47.0	16	47.12	46	33.2	24	28.87	27	31.9	11	48.67	32	14.1	2
Aug. 8	22.51	29	45.4	13	47.58	52	30.8	19	29.14	29	33.0	9	48.99	33	14.3	3
18	22.80	30	44.1	11	48.10	56	28.9	14	29.43	30	33.9	8	49.32	34	14.6	3
28	23.10	29	43.0	7	48.66	59	27.5	7	29.73	30	34.7	6	49.66	34	14.9	4
Sept. 7	23.39	30	42.3	4	49.25	60	26.8	1	30.03	30	35.3	4	50.00	35	15.3	4
17	23.69	29	41.9	0	49.85	59	26.7	5	30.33	30	35.7	2	50.35	35	15.7	3
27	23.98	28	41.9	4	50.44	56	27.2	11	30.63	30	35.9	1	50.70	33	16.0	3
Okt. 7	24.26	27	42.3	8	51.00	52	28.3	18	30.93	28	35.8	3	51.03	33	16.3	3
17	24.53	26	43.1	10	51.52	47	30.1	24	31.21	27	35.5	6	51.36	31	16.6	4
27	24.79	23	44.1	13	51.99	39	32.5	28	31.48	25	34.9	7	51.67	29	17.0	3
Nov. 6	25.02	21	45.4	16	52.38	30	35.3	31	31.73	23	34.2	9	51.96	26	17.3	3
16	25.23	18	47.0	17	52.68	21	38.4	34	31.96	20	33.3	9	52.22	24	17.6	3
26	25.41	15	48.7	18	52.89	10	41.8	36	32.16	17	32.4	10	52.46	20	17.9	4
Dez. 6	25.56	11	50.5	18	52.99	0	45.4	35	32.33	14	31.4	10	52.66	15	18.3	4
16	25.67	7	52.3	17	52.99	12	48.9	35	32.47	9	30.4	10	52.81	11	18.7	4
26	25.74	2	54.0	17	52.87	21	52.4	32	32.56	5	29.4	8	52.92	6	19.1	4
36	25.76		55.7		52.66		55.6		32.61		28.6		52.98		19.5	
Mittl. Ort	21.36		65.3		49.26		59.5		27.85		17.6		47.47		5.6	
sec δ, tg δ	1.011		−0.146		2.589		−2.388		1.006		+0.110		1.138		+0.544	

1913	203) 17 Camelop. AR.	Diff.	203) Dekl. +	Diff.	206) δ Orionis. AR.	Diff.	206) Dekl. —	Diff.
	$5^h 21^m$		62° 59′		$5^h 27^m$		0° 21′	
Jan. 0	59.39	0	58.6	23	34.85	3	39.3	11
10	59.39	10	60.9	21	34.88	2	40.4	11
20	59.29	18	63.0	18	34.86	6	41.5	9
30	59.11	26	64.8	15	34.80	10	42.4	8
Febr. 9	58.85	32	66.3	11	34.70	12	43.2	5
19	58.53	37	67.4	7	34.58	15	43.7	4
März 1	58.16	39	68.1	2	34.43	17	44.1	2
11	57.77	39	68.3	2	34.26	17	44.3	0
21	57.38	38	68.1	7	34.09	16	44.3	2
31	57.00	33	67.4	11	33.93	15	44.1	3
April 10	56.67	28	66.3	14	33.78	12	43.8	6
20	56.39	21	64.9	17	33.66	8	43.2	7
30	56.18	13	63.2	20	33.58	5	42.5	8
Mai 10	56.05	5	61.2	21	33.53	1	41.7	11
20	56.00	5	59.1	21	33.52	4	40.6	12
30	56.05	15	57.0	22	33.56	7	39.4	13
Juni 9	56.20	26	54.8	23	33.63	13	38.1	16
19	[12] 56.46	31	52.5	20	[13] 33.76	16	36.5	15
29	56.77	39	50.5	17	33.92	20	35.0	15
Juli 9	57.16	46	48.8	15	34.12	22	33.5	15
19	57.62	51	47.3	13	34.34	24	32.0	14
29	58.13	56	46.0	10	34.58	27	30.6	13
Aug. 8	58.69	59	45.0	7	34.85	28	29.3	11
18	59.28	61	44.3	4	35.13	29	28.2	9
28	59.89	62	43.9	1	35.42	30	27.3	7
Sept. 7	60.51	63	43.8	3	35.72	30	26.6	3
17	61.14	63	44.1	6	36.02	29	26.3	1
27	61.77	62	44.7	8	36.31	29	26.2	3
Okt. 7	62.39	59	45.5	12	36.60	28	26.5	5
17	62.98	56	46.7	14	36.88	27	27.0	8
27	63.54	52	48.1	18	37.15	25	27.8	10
Nov. 6	64.06	47	49.9	19	37.40	23	28.8	12
16	64.53	40	51.8	21	37.63	20	30.0	13
26	64.93	32	53.9	23	37.83	18	31.3	14
Dez. 6	65.25	24	56.2	23	38.01	13	32.7	15
16	65.49	15	58.5	24	38.14	9	34.2	13
26	65.64	6	60.9	23	38.23	5	35.5	13
36	65.70		63.2		38.28		36.8	
Mittl. Ort	56.93		45.2		33.67		46.1	
sec δ, tg δ	2.202		+1.962		1.000		—0.006	

1913	205) Gr. 966. AR.	Diff.	205) Dekl. +	Diff.	207) α Leporis. AR.	Diff.	207) Dekl. —	Diff.
	$5^h 28^m$		74° 59′		$5^h 28^m$		17° 52′	
Jan. 0	9.44	5	31.0	28	54.85	0	57.1	20
10	9.39	21	33.8	26	54.85	4	59.1	18
20	9.18	37	36.4	23	54.81	8	60.9	16
30	8.81	50	38.7	19	54.73	11	62.5	13
Febr. 9	8.31	61	40.6	14	54.62	15	63.8	9
19	7.70	69	42.0	10	54.47	18	64.7	6
März 1	7.01	73	43.0	4	54.29	18	65.3	3
11	6.28	73	43.4	2	54.11	19	65.6	0
21	5.55	70	43.2	7	53.92	18	65.6	4
31	4.85	65	42.5	12	53.74	17	65.2	8
April 10	4.20	55	41.3	15	53.57	14	64.4	10
20	3.65	44	39.8	21	53.43	11	63.4	13
30	3.21	30	37.7	23	53.32	7	62.1	16
Mai 10	2.91	15	35.4	25	53.25	3	60.5	18
20	2.76	0	32.9	26	53.22	2	58.7	20
30	2.76	16	30.3	27	53.24	6	56.7	22
Juni 9	2.92	35	27.6	28	53.30	11	54.5	25
19	[13] 3.27	46	24.8	25	[14] 53.41	14	52.0	24
29	3.73	60	22.3	23	53.55	18	49.6	23
Juli 9	4.33	71	20.0	20	53.73	21	47.3	22
19	5.04	81	18.0	18	53.94	24	45.1	21
29	5.85	90	16.2	14	54.18	26	43.0	19
Aug. 8	6.75	97	14.8	10	54.44	28	41.1	15
18	7.72	101	13.8	7	54.72	29	39.6	12
28	8.73	105	13.1	3	55.01	30	38.4	9
Sept. 7	9.78	107	12.8	1	55.31	30	37.5	4
17	10.85	107	12.9	5	55.61	30	37.1	1
27	11.92	104	13.4	8	55.91	29	37.2	5
Okt. 7	12.96	101	14.2	13	56.20	28	37.7	10
17	13.97	94	15.5	17	56.48	27	38.7	14
27	14.91	88	17.2	20	56.75	25	40.1	17
Nov. 6	15.79	77	19.2	23	57.00	22	41.8	20
16	16.56	65	21.5	25	57.22	19	43.8	22
26	17.21	52	24.0	28	57.41	16	46.0	23
Dez. 6	17.73	37	26.8	29	57.57	12	48.3	24
16	18.10	22	29.7	29	57.69	8	50.7	23
26	18.32	3	32.6	28	57.77	3	53.0	21
36	18.35		35.4		57.80		55.1	
Mittl. Ort	5.00		17.3		53.55		62.2	
sec δ, tg δ	3.861		+3.729		1.051		—0.323	

1913	209) ι Orionis. AR.	Δ	209) ι Orionis. Dekl. −	Δ	210) ε Orionis. AR.	Δ	210) ε Orionis. Dekl. −	Δ	211) ζ Tauri. AR.	Δ	211) ζ Tauri. Dekl. +	Δ	212) β Doradus. AR.	Δ	212) β Doradus. Dekl. −	Δ
	$5^h\ 31^m$		5° 57′		$5^h\ 31^m$		1° 15′		$5^h\ 32^m$		21° 5′		$5^h\ 32^m$		62° 32′	
Jan. 0	11.83	2	52.5	15	49.09	3	17.6	12	27.91	5	34.2	0	55.06	17	44.9	32
10	11.85	2	54.0	13	49.12	2	18.8	11	27.96	1	34.2	1	54.89	25	48.1	28
20	11.83	6	55.3	12	49.10	5	19.9	10	27.95	5	34.3	0	54.64	33	50.9	24
30	11.77	10	56.5	9	49.05	9	20.9	8	27.90	9	34.3	1	54.31	39	53.3	20
Febr. 9	11.67	13	57.4	7	48.96	13	21.7	6	27.81	13	34.4	0	53.92	44	55.3	15
19	11.54	16	58.1	5	48.83	16	22.3	4	27.68	15	34.4	0	53.48	47	56.8	9
März 1	11.38	17	58.6	2	48.67	16	22.7	2	27.53	17	34.4	0	53.01	50	57.7	3
11	11.21	17	58.8	0	48.51	17	22.9	0	27.36	18	34.4	1	52.51	50	58.0	1
21	11.04	16	58.8	2	48.34	16	22.9	2	27.18	16	34.3	1	52.01	49	57.9	8
31	10.88	15	58.6	5	48.18	15	22.7	4	27.02	15	34.2	2	51.52	46	57.1	12
April 10	10.73	13	58.1	7	48.03	12	22.3	5	26.87	12	34.0	1	51.06	42	55.9	17
20	10.60	9	57.4	9	47.91	9	21.8	7	26.75	9	33.9	2	50.64	36	54.2	22
30	10.51	6	56.5	11	47.82	5	21.1	9	26.66	5	33.7	1	50.28	30	52.0	25
Mai 10	10.45	2	55.4	13	47.77	2	20.2	11	26.61	0	33.6	0	49.98	24	49.5	29
20	10.43	3	54.1	15	47.75	3	19.1	12	26.61	4	33.6	0	49.74	15	46.6	31
30	10.46	7	52.6	16	47.78	7	17.9	14	26.65	9	33.6	1	49.59	7	43.5	33
Juni 9	10.53	12	51.0	18	47.85	13	16.5	16	26.74	15	33.7	2	49.52	1	40.2	38
19	10.65	15	49.2	18	47.98	15	14.9	15	26.89	17	33.9	2	49.53	10	36.4	35
29	10.80	19	47.4	18	48.13	19	13.4	16	27.06	22	34.1	4	49.63	18	32.9	33
Juli 9	10.99	21	45.6	17	48.32	22	11.8	15	27.28	24	34.5	4	49.81	26	29.6	32
19	11.20	24	43.9	17	48.54	24	10.3	14	27.52	27	34.9	4	50.07	32	26.4	29
29	11.44	26	42.2	14	48.78	26	8.9	13	27.79	29	35.3	5	50.39	38	23.5	26
Aug. 8	11.70	27	40.8	13	49.04	28	7.6	12	28.08	31	35.8	4	50.77	44	20.9	21
18	11.97	29	39.5	10	49.32	29	6.4	9	28.39	31	36.2	5	51.21	47	18.8	16
28	12.26	29	38.5	7	49.61	30	5.5	6	28.70	33	36.7	3	51.68	49	17.2	9
Sept. 7	12.55	30	37.8	4	49.91	29	4.9	4	29.03	32	37.0	3	52.17	51	16.3	4
17	12.85	30	37.4	0	50.20	30	4.5	1	29.35	33	37.3	2	52.68	52	15.9	3
27	13.15	29	37.4	3	50.50	29	4.4	3	29.68	32	37.5	1	53.20	49	16.2	9
Okt. 7	13.44	28	37.7	7	50.79	29	4.7	6	30.00	31	37.6	0	53.69	47	17.1	16
17	13.72	27	38.4	10	51.08	27	5.3	8	30.31	30	37.6	0	54.16	43	18.7	22
27	13.99	25	39.4	13	51.35	25	6.1	11	30.61	28	37.6	2	54.59	38	20.9	26
Nov. 6	14.24	23	40.7	15	51.60	23	7.2	13	30.89	26	37.4	1	54.97	31	23.5	31
16	14.47	20	42.2	16	51.83	21	8.5	13	31.15	23	37.3	2	55.28	23	26.6	34
26	14.67	17	43.8	17	52.04	17	9.8	15	31.38	20	37.1	1	55.51	15	30.0	35
Dez. 6	14.84	13	45.5	17	52.21	14	11.3	15	31.58	16	37.0	1	55.66	6	33.5	36
16	14.97	9	47.2	18	52.35	9	12.8	14	31.74	12	36.9	1	55.72	3	37.1	35
26	15.06	5	49.0	16	52.44	6	14.2	13	31.86	7	36.8	0	55.69	13	40.6	33
36	15.11		50.6		52.50		15.5		31.93		36.8		55.56		43.9	
Mittl. Ort	10.62		58.9		47.89		24.4		26.67		25.1		52.11		47.6	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		1.072		+0.386		2.169		−1.924	

1913	215) α Columbae. AR.		Dekl. —		216) ο Aurigae. AR.		Dekl. +		219) ζ Leporis. AR		Dekl. —		220) κ Orionis. AR.		Dekl. —	
	5h 36m		34° 6′		5h 39m		49° 47′		5h 43m		14° 50′		5h 43m		9° 41′	
Jan. 0	31.41	1	67.8	27	11.38	5	32.9	16	2.05	3	67.5	20	39.04	3	53.2	17
10	31.40	7	70.5	25	11.43	2	34.5	16	2.08	2	69.5	18	39.07	1	54.9	16
20	31.33	12	73.0	21	11.41	9	36.1	14	2.06	7	71.3	15	39.06	6	56.5	13
30	31.21	16	75.1	17	11.32	14	37.5	12	1.99	10	72.8	13	39.00	10	57.8	11
Febr. 9	31.05	19	76.8	13	11.18	19	38.7	9	1.89	14	74.1	10	38.90	13	58.9	9
19	30.86	22	78.1	8	10.99	23	39.6	7	1.75	16	75.1	6	38.77	15	59.8	6
März 1	30.64	23	78.9	4	10.76	26	40.3	2	1.59	18	75.7	4	38.62	17	60.4	3
11	30.41	24	79.3	0	10.50	26	40.5	0	1.41	19	76.1	0	38.45	18	60.7	0
21	30.17	23	79.3	5	10.24	26	40.5	4	1.22	18	76.1	3	38.27	17	60.7	2
31	29.94	21	78.8	9	9.98	23	40.1	7	1.04	16	75.8	5	38.10	16	60.5	5
April 10	29.73	19	77.9	14	9.75	19	39.4	9	0.88	15	75.3	9	37.94	14	60.0	7
20	29.54	16	76.5	17	9.56	15	38.5	12	0.73	11	74.4	12	37.80	10	59.3	10
30	29.38	11	74.8	20	9.41	10	37.3	14	0.62	7	73.2	14	37.70	7	58.3	12
Mai 10	29.27	6	72.8	24	9.31	3	35.9	15	0.55	4	71.8	16	37.63	3	57.1	14
20	29.21	2	70.4	25	9.28	4	34.4	15	0.51	1	70.2	18	37.60	1	55.7	16
30	29.19	2	67.9	28	9.32	10	32.9	16	0.52	5	68.4	20	37.61	5	54.1	18
Juni 9	29.21	8	65.1	32	9.42	18	31.3	16	0.57	10	66.4	23	37.66	11	52.3	20
19	[15] 29.29	12	61.9	29	[16] 9.60	22	29.7	14	[17] 0.67	13	64.1	22	[17] 37.77	14	50.3	19
29	29.41	17	59.0	29	9.82	28	28.3	12	0.80	17	61.9	22	37.91	17	48.4	20
Juli 9	29.58	20	56.1	28	10.10	33	27.1	11	0.97	20	59.7	21	38.08	20	46.4	18
19	29.78	24	53.3	26	10.43	36	26.0	10	1.17	23	57.6	19	38.28	23	44.6	18
29	30.02	27	50.7	22	10.79	40	25.0	7	1.40	25	55.7	18	38.51	25	42.8	16
Aug. 8	30.29	29	48.5	19	11.19	42	24.3	6	1.65	27	53.9	15	38.76	27	41.2	14
18	30.58	31	46.6	15	11.61	44	23.7	3	1.92	28	52.4	12	39.03	28	39.8	11
28	30.89	32	45.1	9	12.05	45	23.4	1	2.20	29	51.2	8	39.31	29	38.7	7
Sept. 7	31.21	33	44.2	4	12.50	46	23.3	1	2.49	30	50.4	3	39.60	30	38.0	4
17	31.54	32	43.8	1	12.96	46	23.4	2	2.79	30	50.1	0	39.90	30	37.6	0
27	31.86	32	43.9	7	13.42	45	23.6	5	3.09	29	50.1	4	40.20	29	37.6	4
Okt. 7	32.18	31	44.6	12	13.87	45	24.1	6	3.38	29	50.5	9	40.49	29	38.0	8
17	32.49	29	45.8	18	14.32	42	24.7	9	3.67	28	51.4	12	40.78	27	38.8	11
27	32.78	27	47.6	22	14.74	40	25.6	10	3.95	26	52.6	16	41.05	26	39.9	15
Nov. 6	33.05	24	49.8	25	15.14	37	26.6	12	4.21	23	54.2	19	41.31	24	41.4	16
16	33.29	19	52.3	28	15.51	33	27.8	14	4.44	20	56.1	21	41.55	21	43.0	19
26	33.48	16	55.1	30	15.84	27	29.2	15	4.64	18	58.2	22	41.76	18	44.9	19
Dez. 6	33.64	11	58.1	31	16.11	22	30.7	16	4.82	14	60.4	22	41.94	14	46.8	20
16	33.75	6	61.2	29	16.33	16	32.3	16	4.96	9	62.6	22	42.08	9	48.8	19
26	33.81	1	64.1	29	16.49	9	33.9	16	5.05	3	64.8	21	42.17	6	50.7	19
36	33.82		67.0		16.58		35.5		5.08		66.9		42.23		52.6	
Mittl. Ort	29.86		72.1		9.57		21.5		0.78		73.4		37.80		59.5	
sec δ, tg δ	1.208		—0.678		1.549		+1.183		1.035		—0.265		1.014		—0.171	

1913	224) α Orionis. AR.	Δ	Dekl. +	Δ	225) δ Aurigae. AR.	Δ	Dekl. +	Δ
	$5^h\,50^m$		$7°\,23'$		$5^h\,52^m$		$54°\,16'$	
Jan. 0	28.90		37.6		23.89		56.1	
10	28.95	5	36.8	8	23.96	7	58.0	19
20	28.96	1	36.1	7	23.95	1	59.8	18
30	28.92	4	35.5	6	23.87	8	61.4	16
Febr. 9	28.85	7	35.0	5	23.72	15	62.9	15
19	28.73	12	34.6	4	23.51	21	64.0	11
März 1	28.59	14	34.4	2	23.25	26	64.9	9
11	28.43	16	34.2	2	22.97	28	65.3	4
21	28.26	17	34.2	0	22.67	30	65.4	1
31	28.10	16	34.2	0	22.39	28	65.1	3
April 10	27.95	15	34.4	2	22.12	27	64.5	6
20	27.82	13	34.7	3	21.88	24	63.5	10
30	27.72	10	35.1	4	21.70	18	62.3	12
Mai 10	27.66	6	35.6	5	21.58	12	60.8	15
20	27.64	2	36.2	6	21.52	6	59.2	16
30	27.66	2	36.9	7	21.53	1	57.4	18
Juni 9	27.72	6	37.7	8	21.61	8	55.7	17
19	27.83	11	38.6	9	21.76	15	53.9	18
29	(19) 27.99	16	39.7	11	(19) 22.00	24	52.0	19
Juli 9	28.17	18	40.7	10	22.28	28	50.5	15
19	28.38	21	41.8	11	22.62	34	49.1	14
29	28.61	23	42.8	10	23.00	38	47.8	13
Aug. 8	28.87	26	43.7	9	23.42	42	46.8	10
18	29.15	28	44.5	8	23.87	45	45.9	9
28	29.44	29	45.2	7	24.34	47	45.3	6
Sept. 7	29.73	29	45.6	4	24.83	49	44.9	4
17	30.04	31	45.9	3	25.33	50	44.8	1
27	30.34	30	45.9	0	25.84	51	44.9	1
Okt. 7	30.64	30	45.7	2	26.34	50	45.2	3
17	30.94	30	45.3	4	26.83	49	45.7	5
27	31.23	29	44.7	6	27.31	48	46.5	8
Nov. 6	31.50	27	43.9	8	27.76	45	47.6	11
16	31.76	26	43.0	9	28.18	42	48.8	12
26	31.99	23	42.0	10	28.55	37	50.3	15
Dez. 6	32.19	20	41.0	10	28.87	32	51.9	16
16	32.35	16	39.9	11	29.13	26	53.7	18
26	32.47	12	39.0	9	29.31	18	55.6	19
36	32.55	8	38.1	9	29.42	11	57.6	20
Mittl. Ort	27.68		30.0		21.80		45.2	
sec δ, tg δ	1.008		+0.130		1.713		+1.391	

1913	227) β Aurigae. AR.	Δ	Dekl. +	Δ	228) ϑ Aurigae. AR.	Δ	Dekl. +	Δ
	$5^h\,53^m$		$44°\,56'$		$5^h\,53^m$		$37°\,12'$	
Jan. 0	10.53		32.9		48.84		36.5	
10	10.61	8	34.3	14	48.91	7	37.5	10
20	10.61	0	35.6	13	48.92	1	38.4	9
30	10.56	5	36.9	13	48.88	4	39.3	9
Febr. 9	10.44	12	37.9	10	48.78	10	40.0	7
19	10.28	16	38.8	9	48.64	14	40.7	7
März 1	10.08	20	39.5	7	48.47	17	41.1	4
11	9.86	22	39.8	3	48.27	20	41.4	3
21	9.62	24	39.9	1	48.06	21	41.4	0
31	9.39	23	39.7	2	47.86	20	41.3	1
April 10	9.17	22	39.2	5	47.68	18	40.9	4
20	8.99	18	38.5	7	47.52	16	40.4	5
30	8.85	14	37.5	10	47.40	12	39.7	7
Mai 10	8.76	9	36.4	11	47.32	8	38.9	8
20	8.72	4	35.2	12	47.29	3	38.1	8
30	8.74	2	33.9	13	47.32	3	37.2	9
Juni 9	8.81	7	32.7	12	47.39	7	36.3	9
19	8.95	14	31.4	13	47.52	13	35.5	8
29	(19) 9.16	21	30.1	13	(20) 47.71	19	34.7	8
Juli 9	9.40	24	29.0	11	47.93	22	34.0	7
19	9.69	29	28.0	10	48.19	26	33.4	6
29	10.02	33	27.2	8	48.49	30	32.9	5
Aug. 8	10.37	35	26.5	7	48.81	32	32.6	3
18	10.75	38	25.9	6	49.15	34	32.3	3
28	11.15	40	25.6	3	49.51	36	32.1	2
Sept. 7	11.56	41	25.3	3	49.88	37	32.0	1
17	11.98	42	25.2	1	50.25	37	32.0	0
27	12.41	43	25.3	1	50.63	38	32.0	0
Okt. 7	12.83	42	25.5	2	51.01	38	32.2	2
17	13.24	41	25.9	4	51.39	38	32.4	2
27	13.64	40	26.5	6	51.75	36	32.7	3
Nov. 6	14.02	38	27.2	7	52.09	34	33.1	4
16	14.38	36	28.0	8	52.41	32	33.6	5
26	14.70	32	29.0	10	52.71	30	34.1	5
Dez. 6	14.97	27	30.1	11	52.96	25	34.8	7
16	15.20	23	31.4	13	53.17	21	35.6	8
26	15.36	16	32.7	13	53.32	15	36.5	9
36	15.47	11	34.0	13	53.43	11	37.5	10
Mittl. Ort	8.83		22.7		47.32		26.9	
sec δ, tg δ	1.413		+0.998		1.256		+0.759	

1913	229) η Columbae.				232) ν Orionis.				234) 22 H.Camelop.				236) η Geminor.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$5^h 56^m$		42° 48′		$6^h 2^m$		14° 46′		$6^h 9^m$		69° 21′		$6^h 9^m$		22° 31′	
Jan. 0	$30^s.78$		65″.7		$37^s.55$		54″.5		$19^s.37$		17″.9		$38^s.92$		66″.7	
10	30.77	1	68.8	31	37.62	7	54.1	4	19.48	11	20.5	26	39.00	8	66.7	0
20	30.69	8	71.6	28	37.63	1	53.7	4	19.45	3	23.1	26	39.03	3	66.8	1
30	30.56	13	74.1	25	37.60	3	53.4	3	19.30	15	25.4	23	39.01	2	67.0	2
Febr. 9	30.38	18	76.2	21	37.53	7	53.2	2	19.03	27	27.5	21	38.94	7	67.2	2
19	30.16	22	77.8	16	37.43	10	53.1	1	18.67	36	29.2	17	38.83	11	67.4	2
März 1	29.91	25	79.0	12	37.29	14	53.1	0	18.24	43	30.6	14	38.69	14	67.5	1
11	29.63	28	79.6	6	37.13	16	53.1	0	17.74	50	31.4	8	38.53	16	67.6	1
21	29.35	28	79.8	2	36.96	17	53.1	0	17.22	52	31.7	3	38.35	18	67.7	1
31	29.07	28	79.5	3	36.79	17	53.1	0	16.70	52	31.6	1	38.18	17	67.7	0
April 10	28.81	26	78.7	8	36.64	15	53.1	0	16.21	49	30.9	7	38.02	16	67.7	0
20	28.57	24	77.5	12	36.51	13	53.2	1	15.76	45	29.8	11	37.88	14	67.6	1
30	28.36	21	75.8	17	36.40	11	53.3	1	15.39	37	28.3	15	37.77	11	67.5	1
Mai 10	28.20	16	73.7	21	36.34	6	53.5	2	15.11	28	26.5	18	37.69	8	67.3	2
20	28.08	12	71.3	24	36.31	3	53.7	2	14.92	19	24.4	21	37.66	3	67.2	1
30	28.01	7	68.6	27	36.33	2	54.1	4	14.85	7	22.0	24	37.67	1	67.1	1
Juni 9	27.99	2	65.7	29	36.38	5	54.5	4	14.88	3	19.6	24	37.72	5	67.1	0
19	28.03	4	62.7	30	36.49	11	54.9	4	15.02	14	17.1	25	37.82	10	67.0	1
29	[20] 28.13	10	59.2	35	[22] 36.64	15	55.5	6	[23] 15.31	29	14.4	27	[23] 37.97	15	67.1	1
Juli 9	28.27	14	56.1	31	36.82	18	56.0	5	15.68	37	12.1	23	38.15	18	67.2	1
19	28.45	18	53.0	31	37.03	21	56.6	6	16.14	46	9.9	22	38.37	22	67.3	1
29	28.68	23	50.3	27	37.27	24	57.2	6	16.68	54	7.9	20	38.61	24	67.4	1
Aug. 8	28.95	27	47.8	25	37.53	26	57.8	6	17.30	62	6.1	18	38.88	27	67.6	2
18	29.24	29	45.7	21	37.81	28	58.2	4	17.97	67	4.6	15	39.16	28	67.7	1
28	29.56	32	44.0	17	38.11	30	58.6	4	18.69	72	3.4	12	39.47	31	67.9	2
Sept. 7	29.90	34	42.9	11	38.41	30	58.9	3	19.45	76	2.5	9	39.79	32	67.9	0
17	30.26	36	42.3	6	38.72	31	59.0	1	20.24	79	2.0	5	40.11	32	67.9	0
27	30.61	35	42.3	0	39.04	32	59.0	0	21.04	80	1.8	2	40.44	33	67.8	1
Okt. 7	30.97	36	42.9	6	39.35	31	58.9	1	21.85	81	2.0	2	40.77	33	67.6	2
17	31.32	35	44.2	13	39.66	31	58.5	4	22.64	79	2.6	6	41.10	33	67.4	2
27	31.64	32	45.9	17	39.96	30	58.1	4	23.41	77	3.5	9	41.42	32	67.2	2
Nov. 6	31.94	30	48.2	23	40.25	29	57.6	5	24.14	73	4.7	12	41.73	31	66.9	3
16	32.21	27	50.9	27	40.52	27	57.0	6	24.81	67	6.3	16	42.02	29	66.5	4
26	32.44	23	53.9	30	40.77	25	56.3	7	25.41	60	8.3	20	42.29	27	66.2	3
Dez. 6	32.62	18	57.1	32	40.99	22	55.6	7	25.92	51	10.5	22	42.53	24	66.0	2
16	32.74	12	60.5	34	41.17	18	54.9	7	26.33	41	12.8	23	42.73	20	65.8	2
26	32.81	7	63.8	33	41.31	14	54.3	6	26.62	29	15.4	26	42.88	15	65.7	1
36	32.83	2	67.0	32	41.40	9	53.9	4	26.79	17	18.0	26	42.99	11	65.6	1
Mittl. Ort	29.02		70.8		36.28		46.5		15.71		7.6		37.58		58.6	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		2.836		+2.654		1.083		+0.415	

1913	240) ξ Canis maj. AR.		Dekl. −		241) μ Geminor. AR.		Dekl. +		242) ψ¹ Aurigae. AR.		Dekl. +		243) β Canis maj. AR.		Dekl. −	
	6h 16m		30° 1′		6h 17m		22° 33′		6h 18m		49° 19′		6h 18m		17° 54′	
	s		″		s		″		s		″		s		″	
Jan. 0	59.82	4	20.3	28	43.22	9	40.9	0	13.92	11	69.3	16	53.40	5	36.7	23
10	59.86	2	23.1	26	43.31	3	40.9	1	14.03	3	70.9	16	53.45	1	39.0	21
20	59.84	7	25.7	23	43.34	1	41.0	1	14.06	3	72.5	15	53.46	4	41.1	18
30	59.77	11	28.0	20	43.33	6	41.1	2	14.03	10	74.0	14	53.42	9	42.9	16
Febr. 9	59.66	15	30.0	16	43.27	10	41.3	2	13.93	16	75.4	12	53.33	12	44.5	13
19	59.51	19	31.6	12	43.17	14	41.5	2	13.77	20	76.6	10	53.21	15	45.8	9
März 1	59.32	21	32.8	7	43.03	16	41.7	1	13.57	24	77.6	6	53.06	18	46.7	7
11	59.11	22	33.5	4	42.87	17	41.8	1	13.33	26	78.2	4	52.88	19	47.4	2
21	58.89	22	33.9	1	42.70	18	41.9	1	13.07	26	78.6	0	52.69	18	47.6	1
31	58.67	21	33.8	5	42.52	16	42.0	1	12.81	24	78.6	4	52.51	18	47.5	3
April 10	58.46	19	33.3	9	42.36	14	41.9	0	12.57	22	78.2	6	52.33	16	47.2	7
20	58.27	17	32.4	12	42.22	12	41.9	1	12.35	18	77.6	9	52.17	14	46.5	11
30	58.10	13	31.2	17	42.10	8	41.8	1	12.17	13	76.7	11	52.03	11	45.4	13
Mai 10	57.97	9	29.5	19	42.02	4	41.7	2	12.04	8	75.6	13	51.92	7	44.1	15
20	57.88	5	27.6	22	41.98	0	41.5	1	11.96	2	74.3	15	51.85	2	42.6	18
30	57.83	1	25.4	24	41.98	5	41.4	0	11.94	5	72.8	15	51.83	1	40.8	20
Juni 9	57.82	4	23.0	26	42.03	9	41.4	1	11.99	11	71.3	15	51.84	5	38.8	21
19	57.86	9	20.4	30	42.12	14	41.3	0	12.10	18	69.8	17	51.89	11	36.7	24
29	[25] 57.95	12	17.4	27	[25] 42.26	18	41.3	1	[25] 12.28	23	68.1	14	[26] 52.00	13	34.3	22
Juli 9	58.07	17	14.7	26	42.44	20	41.4	1	12.51	27	66.7	14	52.13	17	32.1	22
19	58.24	20	12.1	25	42.64	24	41.5	1	12.78	32	65.3	13	52.30	20	29.9	20
29	58.44	23	9.6	23	42.88	26	41.6	1	13.10	36	64.0	11	52.50	22	27.9	19
Aug. 8	58.67	26	7.3	19	43.14	29	41.7	0	13.46	39	62.9	9	52.72	25	26.0	16
18	58.93	28	5.4	16	43.43	30	41.7	1	13.85	41	62.0	8	52.97	27	24.4	13
28	59.21	29	3.8	12	43.73	31	41.8	0	14.26	43	61.2	7	53.24	28	23.1	9
Sept. 7	59.50	31	2.6	6	44.04	32	41.8	1	14.69	44	60.5	4	53.52	29	22.2	5
17	59.81	32	2.0	1	44.36	33	41.7	1	15.13	46	60.1	3	53.81	30	21.7	1
27	60.13	32	1.9	5	44.69	33	41.6	2	15.59	46	59.8	1	54.11	31	21.6	4
Okt. 7	60.45	32	2.4	9	45.02	33	41.4	3	16.05	46	59.7	1	54.42	30	22.0	8
17	60.77	30	3.3	15	45.35	33	41.1	4	16.51	44	59.8	4	54.72	29	22.8	13
27	61.07	29	4.8	19	45.68	32	40.7	3	16.95	43	60.2	6	55.01	28	24.1	17
Nov. 6	61.36	27	6.7	24	46.00	29	40.4	4	17.38	41	60.8	8	55.29	26	25.8	20
16	61.63	24	9.1	26	46.29	28	40.0	4	17.79	37	61.6	9	55.55	24	27.8	22
26	61.87	20	11.7	29	46.57	24	39.6	3	18.16	33	62.5	12	55.79	21	30.0	24
Dez. 6	62.07	17	14.6	29	46.81	21	39.3	2	18.49	27	63.7	14	56.00	17	32.4	25
16	62.24	11	17.5	30	47.02	16	39.1	1	18.76	21	65.1	15	56.17	12	34.9	25
26	62.35	5	20.5	30	47.18	12	39.0	1	18.97	15	66.6	15	56.29	8	37.4	24
36	62.40		23.5		47.30		38.9		19.12		68.1		56.37		39.8	
Mittl. Ort	58.36		26.8		41.86		33.0		11.95		60.4		52.09		43.4	
sec δ, tg δ	1.155		−0.578		1.083		+0.417		1.535		+1.164		1.051		−0.323	

1913	244) 8 Monocerot. AR.		Dekl. +		245) α Argus. AR.		Dekl. −		246) 10 Monocerot. AR.		Dekl. −		247) 8 Lyncis. AR.		Dekl. +	
	6h 19m		4° 38′		6h 21m		52° 38′		6h 23m		4° 42′		6h 29m		61° 33′	
Jan. 0	10.74	8	23.3	11	63.29	2	45.3	35	41.06	7	20.6	16	47.34	14	40.5	22
10	10.82	3	22.2	9	63.27	9	48.8	32	41.13	3	22.2	15	47.48	4	42.7	23
20	10.85	2	21.3	8	63.18	16	52.0	29	41.16	2	23.7	13	47.52	5	45.0	21
30	10.83	6	20.5	7	63.02	22	54.9	25	41.14	7	25.0	11	47.47	14	47.1	19
Febr. 9	10.77	10	19.8	5	62.80	26	57.4	21	41.07	10	26.1	8	47.33	22	49.0	17
19	10.67	13	19.3	3	62.54	31	59.5	15	40.97	13	26.9	6	47.11	29	50.7	13
März 1	10.54	15	19.0	2	62.23	34	61.0	11	40.84	16	27.5	4	46.82	34	52.0	10
11	10.39	16	18.8	1	61.89	36	62.1	5	40.68	17	27.9	2	46.48	36	53.0	5
21	10.23	17	18.7	1	61.53	35	62.6	0	40.51	17	28.1	1	46.12	38	53.5	1
31	10.06	16	18.8	2	61.18	35	62.6	4	40.34	16	28.0	2	45.74	36	53.6	3
April 10	9.90	14	19.0	3	60.83	33	62.2	10	40.18	14	27.8	5	45.38	32	53.3	8
20	9.76	11	19.3	4	60.50	29	61.2	15	40.04	12	27.3	7	45.06	28	52.5	11
30	9.65	8	19.7	6	60.21	25	59.7	19	39.92	10	26.6	9	44.78	22	51.4	14
Mai 10	9.57	5	20.3	7	59.96	20	57.8	23	39.82	5	25.7	10	44.56	15	50.0	18
20	9.52	0	21.0	7	59.76	15	55.5	27	39.77	2	24.7	12	44.41	7	48.2	19
30	9.52	4	21.7	9	59.61	9	52.8	29	39.75	3	23.5	14	44.34	1	46.3	21
Juni 9	9.56	7	22.6	10	59.52	3	49.9	31	39.78	6	22.1	15	44.35	9	44.2	21
19	9.63	13	23.6	12	59.49	4	46.8	35	39.84	11	20.6	17	44.44	19	42.1	24
29	[26] 9.76	15	24.8	11	[26] 59.53	10	43.3	33	[27] 39.95	14	18.9	15	[28] 44.63	26	39.7	22
Juli 9	9.91	18	25.9	10	59.63	16	40.0	32	40.09	18	17.4	15	44.89	33	37.5	20
19	10.09	21	26.9	11	59.79	21	36.8	30	40.27	20	15.9	15	45.22	38	35.5	19
29	10.30	24	28.0	9	60.00	26	33.8	28	40.47	22	14.4	13	45.60	45	33.6	17
Aug. 8	10.54	25	28.9	8	60.26	31	31.0	24	40.69	25	13.1	12	46.05	49	31.9	15
18	10.79	28	29.7	6	60.57	34	28.6	19	40.94	26	11.9	9	46.54	53	30.4	13
28	11.07	28	30.3	4	60.91	37	26.7	15	41.20	28	11.0	6	47.07	56	29.1	11
Sept. 7	11.35	30	30.7	2	61.28	40	25.2	8	41.48	29	10.4	4	47.63	59	28.0	7
17	11.65	30	30.9	0	61.68	41	24.4	3	41.77	30	10.0	0	48.22	60	27.3	5
27	11.95	30	30.9	3	62.09	42	24.1	4	42.07	30	10.0	4	48.82	61	26.8	1
Okt. 7	12.25	31	30.6	5	62.51	41	24.5	11	42.37	29	10.4	7	49.43	61	26.7	1
17	12.56	29	30.1	9	62.92	39	25.6	16	42.66	30	11.1	10	50.04	59	26.8	4
27	12.85	29	29.2	10	63.31	36	27.2	22	42.96	28	12.1	13	50.63	58	27.2	8
Nov. 6	13.14	27	28.2	12	63.67	33	29.4	27	43.24	27	13.4	15	51.21	54	28.0	10
16	13.41	25	27.0	12	64.00	28	32.1	31	43.51	24	14.9	17	51.75	50	29.0	14
26	13.66	22	25.8	13	64.28	22	35.2	34	43.75	22	16.6	18	52.25	44	30.4	17
Dez. 6	13.88	19	24.5	13	64.50	16	38.6	36	43.97	19	18.4	19	52.69	36	32.1	19
16	14.07	15	23.2	12	64.66	9	42.2	36	44.16	14	20.3	18	53.05	28	34.0	21
26	14.22	10	22.0	12	64.75	2	45.8	35	44.30	9	22.1	17	53.33	19	36.1	21
36	14.32		20.8		64.77		49.3		44.39		23.8		53.52		38.2	
Mittl. Ort	9.49		16.0		61.17		52.1		39.81		27.6		44.55		32.1	
sec δ, tg δ	1.003		+0.081		1.648		−1.310		1.003		−0.082		2.100		+1.846	

1913	249) ξ^2 Canis maj. AR.	Δ	249) Dekl. −	Δ	248) 23 H. Camelop. AR.	Δ	248) Dekl. +	Δ	250) 51 Aurigae. AR.	Δ	250) Dekl. +	Δ	251) γ Geminorum. AR.	Δ	251) Dekl. +	Δ
	$6^h\ 31^m$		$22^\circ\ 53'$		$6^h\ 31^m$		$79^\circ\ 39'$		$6^h\ 32^m$		$39^\circ\ 28'$		$6^h\ 32^m$		$16^\circ\ 28'$	
Jan. 0	25.94	6	35.9	26	31.97	22	48.4	29	39.57	12	14.3	10	42.51	10	35.0	4
10	26.00	1	38.5	23	32.19	3	51.3	30	39.69	6	15.3	11	42.61	5	34.6	3
20	26.01	4	40.8	21	32.16	28	54.3	28	39.75	0	16.4	11	42.66	0	34.3	2
30	25.97	9	42.9	19	31.88	51	57.1	25	39.75	6	17.5	10	42.66	5	34.1	1
Febr. 9	25.88	12	44.8	15	31.37	70	59.6	21	39.69	12	18.5	9	42.61	8	34.0	0
19	25.76	16	46.3	11	30.67	87	61.7	17	39.57	16	19.4	7	42.53	13	34.0	0
März 1	25.60	18	47.4	8	29.80	98	63.4	12	39.41	19	20.1	6	42.40	15	34.0	1
11	25.42	20	48.2	4	28.82	107	64.6	7	39.22	20	20.7	4	42.25	16	34.1	0
21	25.22	20	48.6	1	27.75	108	65.3	1	39.02	22	21.1	1	42.09	17	34.1	1
31	25.02	19	48.7	4	26.67	105	65.4	5	38.80	20	21.2	1	41.92	16	34.2	1
April 10	24.83	17	48.3	7	25.62	98	64.9	10	38.60	18	21.1	3	41.76	15	34.3	1
20	24.66	16	47.6	10	24.64	87	63.9	15	38.42	15	20.8	6	41.61	12	34.4	1
30	24.50	12	46.6	13	23.77	71	62.4	20	38.27	12	20.2	7	41.49	9	34.5	2
Mai 10	24.38	8	45.3	17	23.06	55	60.4	22	38.15	7	19.5	8	41.40	5	34.7	1
20	24.30	5	43.6	18	22.51	34	58.2	26	38.08	2	18.7	9	41.35	1	34.8	2
30	24.25	1	41.8	21	22.17	14	55.6	28	38.06	4	17.8	10	41.34	4	35.0	3
Juni 9	24.24	4	39.7	23	22.03	8	52.8	28	38.10	8	16.8	11	41.38	7	35.3	3
19	24.28	8	37.4	23	22.11	29	50.0	30	38.18	13	15.7	10	41.45	11	35.6	3
29	24.36	12	35.1	27	22.40	55	47.0	32	38.31	20	14.7	11	41.56	17	35.9	3
Juli 9	[29] 24.48	15	32.4	23	[29] 22.95	70	43.8	28	[29] 38.51	22	13.6	9	[29] 41.73	18	36.2	4
19	24.63	19	30.1	22	23.65	88	41.0	25	38.73	27	12.7	9	41.91	21	36.6	3
29	24.82	21	27.9	21	24.53	103	38.5	23	39.00	29	11.8	8	42.12	24	36.9	3
Aug. 8	25.03	24	25.8	18	25.56	118	36.2	20	39.29	32	11.0	8	42.36	26	37.2	3
18	25.27	27	24.0	15	26.74	129	34.2	18	39.61	35	10.2	6	42.62	28	37.5	2
28	25.54	28	22.5	10	28.03	139	32.4	13	39.96	36	9.6	6	42.90	30	37.7	0
Sept. 7	25.82	29	21.5	6	29.42	146	31.1	10	40.32	38	9.0	5	43.20	30	37.7	0
17	26.11	31	20.9	1	30.88	151	30.1	6	40.70	39	8.5	4	43.50	32	37.7	2
27	26.42	30	20.8	3	32.39	152	29.5	1	41.09	39	8.1	3	43.82	32	37.5	4
Okt. 7	26.72	31	21.1	9	33.91	152	29.4	3	41.48	40	7.8	1	44.14	32	37.1	5
17	27.03	30	22.0	13	35.43	149	29.7	7	41.88	39	7.7	1	44.46	32	36.6	5
27	27.33	30	23.3	17	36.92	141	30.4	12	42.27	38	7.6	1	44.78	31	36.1	7
Nov. 6	27.63	27	25.0	21	38.33	131	31.6	16	42.65	36	7.7	2	45.09	29	35.4	7
16	27.90	25	27.1	24	39.64	117	33.2	20	43.01	34	7.9	4	45.38	28	34.7	8
26	28.15	22	29.5	26	40.81	102	35.2	24	43.35	30	8.3	5	45.66	25	33.9	7
Dez. 6	28.37	18	32.1	28	41.83	81	37.6	26	43.65	26	8.8	7	45.91	21	33.2	7
16	28.55	13	34.9	27	42.64	58	40.2	28	43.91	20	9.5	9	46.12	17	32.5	6
26	28.68	9	37.6	26	43.22	35	43.0	30	44.11	15	10.4	9	46.29	13	31.9	5
36	28.77		40.2		43.57		46.0		44.26		11.3		46.42		31.4	
Mittl. Ort	24.59		42.9		24.32		39.6		37.89		6.6		41.19		27.7	
sec δ, tg δ	1.085		−0.422		5.572		+5.482		1.295		+0.823		1.043		+0.296	

1913	252) ν Argus. AR.	Diff.	252) ν Argus. Dekl. −	Diff.	253) *S* Monocerot. AR.	Diff.	253) *S* Monocerot. Dekl. +	Diff.	254) ε Geminorum. AR.	Diff.	254) ε Geminorum. Dekl. +	Diff.	256) ξ Geminorum. AR.	Diff.	256) ξ Geminorum. Dekl. +	Diff.
	$6^h\ 35^m$		43° 6′		$6^h\ 36^m$		9° 58′		$6^h\ 38^m$		25° 13′		$6^h\ 40^m$		12° 59′	
Jan. 0	7.65	3	62.1	32	12.52	10	44.3	8	36.25	12	12.5	2	25.72	11	31.7	6
10	7.68	3	65.3	31	12.62	5	43.5	7	36.37	6	12.7	2	25.83	5	31.1	6
20	7.65	9	68.4	29	12.67	0	42.8	5	36.43	0	12.9	3	25.88	1	30.5	4
30	7.56	15	71.3	24	12.67	5	42.3	4	36.43	4	13.2	4	25.89	4	30.1	3
Febr. 9	7.41	19	73.7	21	12.62	9	41.9	3	36.39	9	13.6	3	25.85	9	29.8	1
19	7.22	23	75.8	16	12.53	12	41.6	2	36.30	13	13.9	4	25.76	12	29.7	1
März 1	6.99	26	77.4	11	12.41	14	41.4	1	36.17	15	14.3	3	25.64	14	29.6	0
11	6.73	28	78.5	7	12.27	16	41.3	0	36.02	18	14.6	2	25.50	16	29.6	0
21	6.45	28	79.2	1	12.11	17	41.3	1	35.84	17	14.8	1	25.34	17	29.6	1
31	6.17	27	79.3	3	11.94	15	41.4	1	35.67	17	14.9	1	25.17	16	29.7	1
April 10	5.90	26	79.0	8	11.79	15	41.5	2	35.50	16	15.0	1	25.01	15	29.8	2
20	5.64	23	78.2	13	11.64	12	41.7	3	35.34	13	14.9	1	24.86	12	30.0	2
30	5.41	19	76.9	16	11.52	9	42.0	4	35.21	9	14.8	2	24.74	9	30.2	3
Mai 10	5.22	16	75.3	21	11.43	5	42.4	4	35.12	6	14.6	2	24.65	5	30.5	3
20	5.06	11	73.2	23	11.38	1	42.8	5	35.06	1	14.4	2	24.60	2	30.8	3
30	4.95	6	70.9	27	11.37	2	43.3	6	35.05	2	14.2	3	24.58	3	31.1	4
Juni 9	4.89	1	68.2	29	11.39	7	43.9	6	35.07	7	13.9	2	24.61	6	31.5	5
19	4.88	4	65.3	30	11.46	10	44.5	7	35.14	12	13.7	2	24.67	10	32.0	5
29	4.92	10	62.3	33	11.56	15	45.2	8	35.26	17	13.5	2	24.77	15	32.5	6
Juli 9	5.02	14	59.0	30	11.71	18	46.0	7	35.43	19	13.3	2	24.92	17	33.1	5
19	5.16	18	56.0	29	11.89	20	46.7	7	35.62	22	13.1	1	25.09	20	33.6	4
29	5.34	23	53.1	26	12.09	22	47.4	6	35.84	25	13.0	2	25.29	23	34.0	5
Aug. 8	5.57	26	50.5	23	12.31	26	48.0	5	36.09	27	12.8	2	25.52	25	34.5	4
18	5.83	29	48.2	20	12.57	27	48.5	4	36.36	29	12.6	2	25.77	27	34.9	2
28	6.12	33	46.2	14	12.84	28	48.9	2	36.65	31	12 4	2	26.04	29	35.1	1
Sept. 7	6.45	34	44.8	9	13.12	29	49.1	0	36.96	33	12.2	3	26.33	29	35.2	1
17	6.79	35	43.9	3	13.41	31	49.1	1	37.29	33	11.9	3	26.62	31	35.1	2
27	7.14	36	43.6	3	13.72	31	49.0	4	37.62	34	11.6	4	26.93	32	34.9	4
Okt. 7	7.50	36	43.9	9	14.03	31	48.6	5	37.96	34	11.2	4	27.25	31	34.5	5
17	7.86	35	44.8	15	14.34	31	48.1	8	38.30	34	10.8	4	27.56	31	34.0	7
27	8.21	33	46.3	20	14.65	30	47.3	9	38.64	34	10.4	4	27.87	31	33.3	8
Nov. 6	8.54	31	48.3	26	14.95	29	46.4	10	38.98	31	10.0	5	28.18	30	32.5	9
16	8.85	27	50.9	29	15.24	27	45.4	10	39.29	30	9.5	3	28.48	28	31.6	10
26	9.12	23	53.8	32	15.51	24	44.4	11	39.59	27	9.2	3	28.76	24	30.6	10
Dez. 6	9.35	18	57.0	33	15.75	21	43.3	11	39.86	23	8.9	2	29.00	22	29.6	9
16	9.53	12	60.3	35	15.96	17	42.2	10	40.09	19	8.7	0	29.22	18	28.7	8
26	9.65	6	63.8	34	16.13	12	41.2	9	40.28	14	8.7	0	29.40	13	27.9	8
36	9.71		67.2		16.25		40.3		40.42		8.7		29.53		27.1	
Mittl. Ort	5.93		69.5		11.24		37.2		34.84		5.4		24.42		24.6	
sec δ, tg δ	1.370		−0.936		1.015		+0.176		1.105		+0.471		1.026		+0.231	

1913	257) α Canis maj.*)				258) 18 Monocerot.				261) ϑ Geminorum.				262) α Pictoris.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	6h 41m		16° 35′		6h 43m		2° 30′		6h 47m		34° 4′		6h 47m		61° 50′	
Jan. 0	20.03	7	39.6	23	20.76	10	36.1	13	4.96	14	8.2	6	20.61	2	43.2	36
10	20.10	3	41.9	22	20.86	5	34.8	11	5.10	7	8.8	8	20.59	10	46.8	35
20	20.13	3	44.1	20	20.91	0	33.7	10	5.17	2	9.6	8	20.49	20	50.3	32
30	20.10	7	46.1	16	20.91	4	32.7	8	5.19	5	10.4	8	20.29	27	53.5	28
Febr. 9	20.03	11	47.7	14	20.87	9	31.9	6	5.14	9	11.2	7	20.02	35	56.3	25
19	19.92	15	49.1	10	20.78	11	31.3	5	5.05	13	11.9	7	19.67	40	58.8	20
März 1	19.77	16	50.1	7	20.67	15	30.8	3	4.92	17	12.6	6	19.27	44	60.8	14
11	19.61	18	50.8	4	20.52	16	30.5	1	4.75	18	13.2	4	18.83	47	62.2	10
21	19.43	19	51.2	1	20.36	16	30.4	1	4.57	20	13.6	2	18.36	48	63.2	4
31	19.24	18	51.3	2	20.20	16	30.5	1	4.37	19	13.8	0	17.88	47	63.6	1
April 10	19.06	17	51.1	6	20.04	15	30.6	4	4.18	17	13.8	1	17.41	46	63.5	7
20	18.89	14	50.5	9	19.89	12	31.0	4	4.01	15	13.7	3	16.95	42	62.8	11
30	18.75	11	49.6	11	19.77	10	31.4	6	3.86	11	13.4	5	16.53	38	61.7	16
Mai 10	18.64	8	48.5	13	19.67	6	32.0	7	3.75	7	12.9	5	16.15	33	60.1	21
20	18.56	4	47.2	16	19.61	2	32.7	9	3.68	3	12.4	7	15.82	27	58.0	24
30	18.52	0	45.6	18	19.59	1	33.6	9	3.65	2	11.7	7	15.55	19	55.6	28
Juni 9	18.52	3	43.8	19	19.60	5	34.5	10	3.67	6	11.0	7	15.36	13	52.8	30
19	18.55	8	41.9	21	19.65	10	35.5	11	3.73	11	10.3	8	15.23	5	49.8	33
29	18.63	13	39.8	22	19.75	14	36.6	12	3.84	17	9.5	8	15.18	4	46.5	36
Juli 9	18.76	15	37.6	20	19.89	16	37.8	11	4.01	20	8.7	7	15.22	11	42.9	33
19	18.91	18	35.6	19	20.05	19	38.9	11	4.21	24	8.0	7	15.33	19	39.6	32
29	19.09	21	33.7	18	20.24	21	40.0	9	4.45	26	7.3	6	15.52	26	36.4	29
Aug. 8	19.30	23	31.9	15	20.45	24	40.9	8	4.71	29	6.7	7	15.78	32	33.5	27
18	19.53	26	30.4	12	20.69	25	41.7	7	5.00	31	6.0	6	16.10	38	30.8	22
28	19.79	27	29.2	8	20.94	28	42.4	4	5.31	33	5.4	5	16.48	43	28.6	18
Sept. 7	20.06	29	28.4	5	21.22	28	42.8	1	5.64	35	4.9	6	16.91	47	26.8	12
17	20.35	29	27.9	1	21.50	30	42.9	1	5.99	36	4.3	5	17.38	49	25.6	5
27	20.64	30	27.8	5	21.80	30	42.8	4	6.35	37	3.8	4	17.87	51	25.1	1
Okt. 7	20.94	31	28.3	8	22.10	31	42.4	7	6.72	37	3.4	4	18.38	51	25.2	7
17	21.25	30	29.1	13	22.41	30	41.7	9	7.09	37	3.0	3	18.89	50	25.9	14
27	21.55	29	30.4	17	22.71	30	40.8	11	7.46	37	2.7	3	19.39	47	27.3	20
Nov. 6	21.84	27	32.1	20	23.01	28	39.7	13	7.83	34	2.4	1	19.86	42	29.3	26
16	22.11	25	34.1	22	23.29	27	38.4	14	8.17	33	2.3	0	20.28	36	31.9	30
26	22.36	22	36.3	24	23.56	24	37.0	15	8.50	30	2.3	1	20.64	29	34.9	33
Dez. 6	22.58	19	38.7	26	23.80	21	35.5	15	8.80	26	2.4	3	20.93	22	38.2	36
16	22.77	14	41.3	25	24.01	16	34.0	14	9.06	21	2.7	5	21.15	12	41.8	38
26	22.91	10	43.8	24	24.17	13	32.6	14	9.27	17	3.2	5	21.27	4	45.6	40
36	23.01		46.2		24.30		31.2		9.44		3.7		21.31		49.6	
Mittl. Ort	18.96		46.1		19.51		29.0		3.39		1.4		17.97		51.8	
sec δ, tg δ	1.044		−0.296		1.001		+0.044		1.207		+0.676		2.119		−1.869	

*) Ort des Hauptsterns; die jährliche Parallaxe ist bereits angebracht.

1913	265) 15 Lyncis. AR.	Δ	Dekl. +	Δ	266) ϑ Canis maj. AR.	Δ	Dekl. −	Δ	268) ε Canis maj. AR.	Δ	Dekl. −	Δ	269) ζ Geminor. AR.	Δ	Dekl. +	Δ
	6h 49m		58° 32′		6h 50m		11° 55′		6h 55m		28° 50′		6h 58m		20° 41′	
Jan. 0	47.44	18	23.6	21	10.13	9	37.1	21	13.74	8	63.2	29	58.37	14	62.0	2
10	47.62	8	25.7	21	10.22	4	39.2	19	13.82	3	66.1	28	58.51	8	61.8	1
20	47.70	1	27.8	21	10.26	0	41.1	18	13.85	3	68.9	25	58.59	3	61.7	1
30	47.69	9	29.9	19	10.26	5	42.9	15	13.82	8	71.4	22	58.62	3	61.8	1
Febr. 9	47.60	16	31.8	17	10.21	9	44.4	12	13.74	12	73.6	18	58.59	7	61.9	2
19	47.44	24	33.5	15	10.12	13	45.6	9	13.62	16	75.4	15	58.52	11	62.1	2
März 1	47.20	29	35.0	11	9.99	15	46.5	7	13.46	18	76.9	11	58.41	15	62.3	2
11	46.91	32	36.1	7	9.84	17	47.2	4	13.28	21	78.0	7	58.26	16	62.5	3
21	46.59	33	36.8	3	9.67	18	47.6	1	13.07	21	78.7	3	58.10	16	62.8	2
31	46.26	33	37.1	1	9.49	17	47.7	2	12.86	21	79.0	2	57.94	17	63.0	1
April 10	45.93	30	37.0	4	9.32	16	47.5	5	12.65	20	78.8	5	57.77	16	63.1	1
20	45.63	27	36.6	9	9.16	14	47.0	7	12.45	17	78.3	9	57.61	13	63.2	1
30	45.36	22	35.7	12	9.02	11	46.3	10	12.28	15	77.4	13	57.48	10	63.3	0
Mai 10	45.14	15	34.5	15	8.91	8	45.3	12	12.13	11	76.1	16	57.38	7	63.3	0
20	44.99	9	33.0	17	8.83	5	44.1	13	12.02	8	74.5	19	57.31	3	63.3	0
30	44.90	2	31.3	19	8.78	0	42.8	16	11.94	4	72.6	22	57.28	1	63.3	0
Juni 9	44.88	6	29.4	20	8.78	3	41.2	17	11.90	0	70.4	23	57.29	5	63.3	0
19	44.94	13	27.4	21	8.81	7	39.5	18	11.90	4	68.1	25	57.34	9	63.3	0
29	45.07	23	25.3	23	8.88	12	37.7	20	11.94	10	65.6	28	57.43	14	63.3	0
Juli 9	45.30	27	23.0	20	9.00	14	35.7	19	12.04	12	62.8	25	57.57	17	63.3	0
19	45.57	33	21.0	19	9.14	17	33.8	17	12.16	17	60.3	25	57.74	19	63.3	0
29	45.90	38	19.1	18	9.31	20	32.1	16	12.33	19	57.8	22	57.93	23	63.3	0
Aug. 8	46.28	43	17.3	16	9.51	23	30.5	14	12.52	22	55.6	20	58.16	25	63.3	1
18	46.71	47	15.7	15	9.74	25	29.1	12	12.74	26	53.6	17	58.41	27	63.2	2
28	47.18	50	14.2	12	9.99	26	27.9	8	13.00	27	51.9	13	58.68	29	63.0	2
Sept. 7	47.68	53	13.0	10	10.25	28	27.1	4	13.27	30	50.6	8	58.97	30	62.8	3
17	48.21	55	12.0	8	10.53	29	26.7	1	13.57	30	49.8	3	59.27	31	62.5	5
27	48.76	56	11.2	5	10.82	30	26.6	3	13.87	32	49.5	2	59.58	33	62.0	5
Okt. 7	49.32	56	10.7	2	11.12	31	26.9	8	14.19	32	49.7	8	59.91	33	61.5	6
17	49.88	56	10.5	1	11.43	30	27.7	11	14.51	32	50.5	13	60.24	34	60.9	7
27	50.44	55	10.6	5	11.73	29	28.8	15	14.83	31	51.8	17	60.58	33	60.2	7
Nov. 6	50.99	52	11.1	7	12.02	29	30.3	18	15.14	30	53.5	22	60.91	31	59.5	7
16	51.51	49	11.8	10	12.31	26	32.1	20	15.44	27	55.7	25	61.22	31	58.8	7
26	52.00	44	12.8	14	12.57	23	34.1	22	15.71	24	58.2	28	61.53	27	58.1	6
Dez. 6	52.44	37	14.2	16	12.80	21	36.3	23	15.95	20	61.0	30	61.80	25	57.5	6
16	52.81	29	15.8	18	13.01	16	38.6	22	16.15	16	64.0	30	62.05	20	56.9	5
26	53.10	22	17.6	20	13.17	11	40.8	22	16.31	10	67.0	30	62.25	16	56.4	3
36	53.32		19.6		13.28		43.0		16.41		70.0		62.41		56.1	
Mittl. Ort	44.83		16.9		8.87		44.4		12.36		71.2		57.01		55.6	
sec δ, tg δ	1.916		+1.635		1.022		−0.211		1.142		−0.551		1.069		+0.378	

1913	271) γ Canis maj.				273) δ Canis maj.				274) 63 Aurigae.				277) λ Geminor.			
	AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	6ʰ 59ᵐ		15° 29′		7ʰ 4ᵐ		26° 14′		7ʰ 5ᵐ		39° 27′		7ʰ 13ᵐ		16° 41′	
	s		″		s		″		s		″		s		″	
Jan. 0	50.63		67.2		52.53		68.0		42.15		54.1		6.99		59.2	
		10		23		10		28		16		9		14		5
10	50.73		69.5		52.63		70.8		42.31		55.0		7.13		58.7	
		5		22		4		27		10		10		9		4
20	50.78		71.7		52.67		73.5		42.41		56.0		7.22		58.3	
		0		20		2		25		3		12		4		2
30	50.78		73.7		52.65		76.0		42.44		57.2		7.26		58.1	
		5		17		6		21		2		11		2		1
Febr. 9	50.73		75.4		52.59		78.1		42.42		58.3		7.24		58.0	
		9		14		10		19		8		10		5		0
19	50.64		76.8		52.49		80.0		42.34		59.3		7.19		58.0	
		13		11		15		15		14		10		10		1
März 1	50.51		77.9		52.34		81.5		42.20		60.3		7.09		58.1	
		15		8		17		11		17		8		13		1
11	50.36		78.7		52.17		82.6		42.03		61.1		6.96		58.2	
		17		5		20		7		19		6		16		2
21	50.19		79.2		51.97		83.3		41.84		61.7		6.80		58.4	
		18		2		20		3		21		4		16		2
31	50.01		79.4		51.77		83.6		41.63		62.1		6.64		58.6	
		18		2		20		0		20		2		16		2
April 10	49.83		79.2		51.57		83.6		41.43		62.3		6.48		58.8	
		17		4		19		4		20		2		15		1
20	49.66		78.8		51.38		83.2		41.23		62.1		6.33		58.9	
		15		7		17		9		17		3		14		2
30	49.51		78.1		51.21		82.3		41.06		61.8		6.19		59.1	
		12		10		15		11		13		5		11		2
Mai 10	49.39		77.1		51.06		81.2		40.93		61.3		6.08		59.3	
		9		13		11		15		10		7		8		2
20	49.30		75.8		50.95		79.7		40.83		60.6		6.00		59.5	
		5		14		8		18		5		8		4		1
30	49.25		74.4		50.87		77.9		40.78		59.8		5.96		59.6	
		2		17		4		20		0		9		0		2
Juni 9	49.23		72.7		50.83		75.9		40.78		58.9		5.96		59.8	
		2		18		1		22		5		10		4		2
19	49.25		70.9		50.82		73.7		40.83		57.9		6.00		60.0	
		6		19		4		23		9		11		7		2
29	49.31		69.0		50.86		71.4		40.92		56.8		6.07		60.2	
		10		22		9		27		15		12		11		2
Juli 9	49.41		66.8		50.95		68.7		41.07		55.6		6.18		60.4	
		14		20		12		24		19		12		16		3
19	49.55		64.8		51.07		66.3		41.26		54.4		6.34		60.7	
		16		19		15		23		23		10		18		1
29	49.71		62.9		51.22		64.0		41.49		53.4		6.52		60.8	
		19		17		19		22		26		11		20		1
Aug. 8	49.90		61.2		51.41		61.8		41.75		52.3		6.72		60.9	
		22		16		21		20		29		10		24		0
18	50.12		59.6		51.62		59.8		42.04		51.3		6.96		60.9	
		24		12		25		16		31		10		25		0
28	50.36		58.4		51.87		58.2		42.35		50.3		7.21		60.9	
		26		9		26		12		34		9		27		2
Sept. 7	50.62		57.5		52.13		57.0		42.69		49.4		7.48		60.7	
		28		6		29		8		36		8		29		3
17	50.90		56.9		52.42		56.2		43.05		48.6		7.77		60.4	
		29		1		30		3		38		8		31		5
27	51.19		56.8		52.72		55.9		43.43		47.8		8.08		59.9	
		30		3		31		2		39		7		31		6
Okt. 7	51.49		57.1		53.03		56.1		43.82		47.1		8.39		59.3	
		30		7		32		7		40		5		33		7
17	51.79		57.8		53.35		56.8		44.22		46.6		8.72		58.6	
		31		12		32		12		40		4		32		8
27	52.10		59.0		53.67		58.0		44.62		46.2		9.04		57.8	
		30		15		31		17		40		3		33		9
Nov. 6	52.40		60.5		53.98		59.7		45.02		45.9		9.37		56.9	
		29		19		30		21		38		1		32		10
16	52.69		62.4		54.28		61.8		45.40		45.8		9.69		55.9	
		27		21		28		24		37		0		30		10
26	52.96		64.5		54.56		64.2		45.77		45.8		9.99		54.9	
		24		24		24		27		33		3		28		9
Dez. 6	53.20		66.9		54.80		66.9		46.10		46.1		10.27		54.0	
		21		24		21		29		29		5		25		9
16	53.41		69.3		55.01		69.8		46.39		46.6		10.52		53.1	
		17		25		17		30		25		7		21		7
26	53.58		71.8		55.18		72.8		46.64		47.3		10.73		52.4	
		12		24		12		29		19		8		17		6
36	53.70		74.2		55.30		75.7		46.83		48.1		10.90		51.8	
Mittl. Ort	49.37		74.8		51.20		76.2		40.42		48.4		5.65		53.1	
sec δ, tg δ	1.038		−0.277		1.115		−0.492		1.295		+0.823		1.044		+0.300	

1913	278) π Argus. AR.	Δ	Dekl. −	Δ	279) δ Geminorum. AR.	Δ	Dekl. +	Δ	280) 19 Lyncis seq. AR.	Δ	Dekl. +	Δ	281) δ Volantis. AR.	Δ	Dekl. −	Δ
	7h 14m		36° 56′		7h 14m		22° 8′		7h 15m		55° 26′		7h 16m		67° 47′	
Jan. 0	5.63	10	17.6	32	57.12	15	42.0	1	48.87	21	51.8	18	55.80	2	41.8	38
10	5.73	3	20.8	32	57.27	9	41.9	1	49.08	13	53.6	19	55.82	9	45.6	37
20	5.76	3	24.0	29	57.36	5	41.8	1	49.21	4	55.5	20	55.73	20	49.3	34
30	5.73	8	26.9	26	57.41	1	41.9	2	49.25	4	57.5	19	55.53	30	52.7	33
Febr. 9	5.65	13	29.5	23	57.40	6	42.1	3	49.21	11	59.4	18	55.23	40	56.0	28
19	5.52	17	31.8	18	57.34	10	42.4	3	49.10	19	61.2	15	54.83	47	58.8	24
März 1	5.35	20	33.6	15	57.24	14	42.7	3	48.91	24	62.7	13	54.36	54	61.2	20
11	5.15	23	35.1	10	57.10	15	43.0	3	48.67	27	64.0	10	53.82	57	63.2	14
21	4.92	24	36.1	6	56.95	17	43.3	3	48.40	29	65.0	6	53.25	61	64.6	9
31	4.68	24	36.7	0	56.78	17	43.6	2	48.11	30	65.6	2	52.64	60	65.5	4
April 10	4.44	23	36.7	3	56.61	16	43.8	2	47.81	29	65.8	1	52.04	60	65.9	1
20	4.21	21	36.4	8	56.45	13	44.0	0	47.52	25	65.7	6	51.44	57	65.8	7
30	4.00	19	35.6	12	56.32	12	44.0	1	47.27	22	65.1	9	50.87	53	65.1	12
Mai 10	3.81	15	34.4	16	56.20	8	44.1	0	47.05	16	64.2	12	50.34	47	63.9	17
20	3.66	12	32.8	19	56.12	4	44.1	1	46.89	11	63.0	15	49.87	41	62.3	21
30	3.54	8	30.9	22	56.08	0	44.0	1	46.78	5	61.5	16	49.46	33	60.2	25
Juni 9	3.46	3	28.7	25	56.08	3	43.9	1	46.73	2	59.9	19	49.13	25	57.7	28
19	3.43	1	26.2	27	56.11	8	43.8	1	46.75	8	58.0	19	48.88	16	54.9	30
29	3.44	5	23.5	27	56.19	11	43.7	1	46.83	15	56.1	20	48.72	6	51.9	32
Juli 9	3.49	11	20.8	30	56.30	16	43.6	1	46.98	23	54.1	22	48.66	4	48.7	36
19	3.60	14	17.8	27	56.46	19	43.5	2	47.21	27	51.9	19	48.70	13	45.1	32
29	3.74	18	15.1	26	56.65	21	43.3	2	47.48	32	50.0	19	48.83	23	41.9	31
Aug. 8	3.92	21	12.5	23	56.86	24	43.1	3	47.80	37	48.1	18	49.06	32	38.8	28
18	4.13	25	10.2	20	57.10	26	42.8	3	48.17	40	46.3	16	49.38	40	36.0	25
28	4.38	27	8.2	15	57.36	28	42.5	4	48.57	44	44.7	15	49.78	47	33.5	21
Sept. 7	4.65	31	6.7	11	57.64	30	42.1	5	49.01	47	43.2	13	50.25	53	31.4	15
17	4.96	32	5.6	5	57.94	32	41.6	5	49.48	49	41.9	11	50.78	58	29.9	9
27	5.28	33	5.1	0	58.26	32	41.1	7	49.97	51	40.8	9	51.36	61	29.0	3
Okt. 7	5.61	35	5.1	6	58.58	34	40.4	7	50.48	52	39.9	6	51.97	62	28.7	4
17	5.96	34	5.7	12	58.92	34	39.7	8	51.00	53	39.3	3	52.59	62	29.1	10
27	6.30	34	6.9	17	59.26	33	38.9	8	51.53	52	39.0	0	53.21	59	30.1	17
Nov. 6	6.64	32	8.6	23	59.59	33	38.1	8	52.05	51	39.0	3	53.80	54	31.8	22
16	6.96	30	10.9	26	59.92	32	37.3	7	52.56	48	39.3	6	54.34	49	34.0	28
26	7.26	26	13.5	30	60.24	29	36.6	7	53.04	44	39.9	9	54.83	39	36.8	32
Dez. 6	7.52	23	16.5	32	60.53	26	35.9	5	53.48	38	40.8	13	55.22	31	40.0	35
16	7.75	17	19.7	33	60.79	22	35.4	5	53.86	32	42.1	15	55.53	20	43.5	38
26	7.92	12	23.0	33	61.01	18	34.9	3	54.18	25	43.6	17	55.73	8	47.3	38
36	8.04		26.3		61.19		34.6		54.43		45.3		55.81		51.1	
Mittl. Ort	4.17		26.7		55.72		36.3		46.42		47.1		52.71		52.9	
sec δ, tg δ	1.251		−0.752		1.079		+0.407		1.763		+1.452		2.647		−2.450	

1913	282) ι Geminorum. AR.		Dekl. +		284) Gr. 1308. AR.		Dekl. +		285) β Canis min. AR.		Dekl. +		286) ρ Geminorum. AR.		Dekl. +	
	$7^h 20^m$		27° 58′		$7^h 21^m$		68° 38′		$7^h 22^m$		8° 27′		$7^h 23^m$		31° 57′	
Jan. 0	21.00	16	23.9	2	54.23	29	45.2	24	27.28	14	61.7	11	32.62	17	35.3	4
10	21.16	11	24.1	3	54.52	17	47.6	26	27.42	10	60.6	9	32.79	12	35.7	6
20	21.27	5	24.4	5	54.69	3	50.2	25	27.52	4	59.7	7	32.91	5	36.3	7
30	21.32	0	24.9	5	54.72	9	52.7	25	27.56	1	59.0	6	32.96	0	37.0	7
Febr. 9	21.32	6	25.4	6	54.63	20	55.2	22	27.55	5	58.4	4	32.96	6	37.7	8
19	21.26	10	26.0	5	54.43	31	57.4	20	27.50	9	58.0	3	32.90	10	38.5	8
März 1	21.16	14	26.5	6	54.12	39	59.4	16	27.41	13	57.7	1	32.80	14	39.3	6
11	21.02	16	27.1	4	53.73	45	61.0	12	27.28	14	57.6	0	32.66	17	39.9	6
21	20.86	18	27.5	4	53.28	49	62.2	8	27.14	16	57.6	1	32.49	18	40.5	5
31	20.68	17	27.9	2	52.79	49	63.0	3	26.98	16	57.7	1	32.31	18	41.0	3
April 10	20.51	17	28.1	1	52.30	48	63.3	3	26.82	15	57.8	3	32.13	18	41.3	1
20	20.34	15	28.2	0	51.82	44	63.0	7	26.67	13	58.1	3	31.95	15	41.4	1
30	20.19	12	28.2	0	51.38	39	62.3	12	26.54	11	58.4	4	31.80	13	41.3	2
Mai 10	20.07	9	28.2	2	50.99	31	61.1	16	26.43	8	58.8	5	31.67	10	41.1	3
20	19.98	5	28.0	4	50.68	23	59.5	19	26.35	5	59.3	5	31.57	6	40.8	5
30	19.93	1	27.6	3	50.45	13	57.6	21	26.30	1	59.8	5	31.51	1	40.3	5
Juni 9	19.92	4	27.3	4	50.32	4	55.5	24	26.29	2	60.3	6	31.50	3	39.8	6
19	19.96	7	26.9	5	50.28	7	53.1	25	26.31	6	60.9	7	31.53	7	39.2	7
29	20.03	11	26.4	5	50.35	17	50.6	26	26.37	9	61.6	6	31.60	11	38.5	7
Juli 9	20.14	16	25.9	5	50.52	29	48.0	29	26.46	14	62.2	7	31.71	17	37.8	8
19	20.30	18	25.4	6	50.81	35	45.1	26	26.60	17	62.9	6	31.88	19	37.0	8
29	20.48	22	24.8	5	51.16	44	42.5	24	26.77	19	63.5	5	32.07	22	36.2	8
Aug. 8	20.70	24	24.3	6	51.60	52	40.1	23	26.96	21	64.0	4	32.29	25	35.4	8
18	20.94	27	23.7	6	52.12	58	37.8	21	27.17	23	64.4	3	32.54	28	34.6	8
28	21.21	30	23.1	7	52.70	64	35.7	19	27.40	26	64.7	0	32.82	30	33.8	8
Sept. 7	21.51	31	22.4	6	53.34	69	33.8	16	27.66	27	64.7	1	33.12	32	33.0	8
17	21.82	32	21.8	7	54.03	74	32.2	14	27.93	29	64.6	3	33.44	34	32.2	8
27	22.14	34	21.1	8	54.77	76	30.8	10	28.22	31	64.3	5	33.78	35	31.4	8
Okt. 7	22.48	36	20.3	8	55.53	78	29.8	6	28.53	31	63.8	8	34.13	37	30.6	8
17	22.84	35	19.5	7	56.31	79	29.2	2	28.84	31	63.0	10	34.50	37	29.8	7
27	23.19	36	18.8	7	57.10	78	29.0	2	29.15	32	62.0	11	34.87	37	29.1	7
Nov. 6	23.55	34	18.1	7	57.88	75	29.2	6	29.47	31	60.9	13	35.24	36	28.4	5
16	23.89	34	17.4	5	58.63	70	29.8	10	29.78	30	59.6	13	35.60	34	27.9	4
26	24.23	31	16.9	4	59.33	64	30.8	14	30.08	27	58.3	14	35.94	33	27.5	2
Dez. 6	24.54	27	16.5	3	59.97	56	32.2	18	30.35	25	56.9	13	36.27	29	27.3	1
16	24.81	24	16.2	1	60.53	46	34.0	20	30.60	21	55.6	13	36.56	24	27.2	1
26	25.05	18	16.1	0	60.99	35	36.0	23	30.81	16	54.3	12	36.80	20	27.3	3
36	25.23		16.1		61.34		38.3		30.97		53.1		37.00		27.6	
Mittl. Ort	19.52		18.7		50.28		41.2		26.02		55.4		31.06		30.5	
sec δ, tg δ	1.132		+0.531		2.746		+2.558		1.011		+0.149		1.179		+0.624	

1913	287) α Gemin.[1]				289) 25 Monocerot.				291) α Canis min.[2]				292) 24 Lyncis.			
	AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	7h 29m		32° 4′		7h 32m		3° 54′		7h 34m		5° 26′		7h 35m		58° 54′	
Jan. 0	4.50s	17	54.3″	4	58.40s	14	50.8″	18	46.09s	15	61.0″	13	41.92s	26	57.0″	19
10	4.67	13	54.7	5	58.54	9	52.6	16	46.24	10	59.7	11	42.18	16	58.9	21
20	4.80	6	55.2	7	58.63	4	54.2	15	46.34	4	58.6	10	42.34	8	61.0	21
30	4.86	0	55.9	8	58.67	1	55.7	13	46.38	0	57.6	8	42.42	2	63.1	22
Febr. 9	4.86	4	56.7	8	58.66	5	57.0	10	46.38	4	56.8	5	42.40	10	65.3	20
19	4.82	10	57.5	8	58.61	9	58.0	8	46.34	9	56.3	4	42.30	18	67.3	18
März 1	4.72	14	58.3	7	58.52	12	58.8	6	46.25	12	55.9	3	42.12	25	69.1	15
11	4.58	16	59.0	6	58.40	15	59.4	4	46.13	14	55.6	1	41.87	29	70.6	12
21	4.42	18	59.6	4	58.25	16	59.8	1	45.99	16	55.5	0	41.58	32	71.8	9
31	4.24	19	60.0	4	58.09	16	59.9	1	45.83	16	55.5	1	41.26	33	72.7	4
April 10	4.05	17	60.4	1	57.93	16	59.8	2	45.67	15	55.6	3	40.93	32	73.1	0
20	3.88	17	60.5	0	57.77	15	59.6	4	45.52	13	55.9	4	40.61	30	73.1	4
30	3.71	13	60.5	2	57.62	12	59.2	7	45.39	12	56.3	4	40.31	26	72.7	8
Mai 10	3.58	10	60.3	3	57.50	9	58.5	8	45.27	9	56.7	5	40.05	21	71.9	11
20	3.48	6	60.0	5	57.41	6	57.7	9	45.18	5	57.2	6	39.84	15	70.8	15
30	3.42	2	59.5	5	57.35	3	56.8	11	45.13	2	57.8	6	39.69	9	69.3	17
Juni 9	3.40	2	59.0	7	57.32	0	55.7	11	45.11	1	58.4	7	39.60	2	67.6	20
19	3.42	6	58.3	7	57.32	4	54.6	13	45.12	4	59.1	8	39.58	5	65.6	20
29	3.48	10	57.6	7	57.36	8	53.3	13	45.16	10	59.9	8	39.63	11	63.6	22
Juli 9	(13) 3.58	16	56.9	8	(11) 57.44	12	52.0	14	(11) 45.26	12	60.7	8	(14) 39.74	21	61.4	25
19	3.74	18	56.1	9	57.56	14	50.6	13	45.38	15	61.5	7	39.95	25	58.9	22
29	3.92	22	55.2	8	57.70	17	49.3	11	45.53	17	62.2	5	40.20	31	56.7	22
Aug. 8	4.14	24	54.4	8	57.87	20	48.2	10	45.70	20	62.7	5	40.51	36	54.5	21
18	4.38	27	53.6	8	58.07	22	47.2	7	45.90	23	63.2	3	40.87	41	52.4	20
28	4.65	30	52.8	9	58.29	24	46.5	6	46.13	25	63.5	1	41.28	45	50.4	18
Sept. 7	4.95	32	51.9	9	58.53	27	45.9	3	46.38	26	63.6	1	41.73	49	48.6	16
17	5.27	33	51.0	8	58.80	28	45.6	1	46.64	28	63.5	3	42.22	52	47.0	14
27	5.60	35	50.2	9	59.08	29	45.7	4	46.92	30	63.2	6	42.74	55	45.6	12
Okt. 7	5.95	36	49.3	9	59.37	31	46.1	8	47.22	31	62.6	9	43.29	56	44.4	8
17	6.31	37	48.4	8	59.68	31	46.9	10	47.53	31	61.7	11	43.85	58	43.6	6
27	6.68	37	47.6	7	59.99	31	47.9	14	47.84	32	60.6	13	44.43	57	43.0	2
Nov. 6	7.05	37	46.9	5	60.30	31	49.3	16	48.16	31	59.3	14	45.00	56	42.8	1
16	7.42	35	46.4	5	60.61	29	50.9	18	48.47	30	57.9	15	45.56	53	42.9	5
26	7.77	32	45.9	3	60.90	27	52.7	19	48.77	27	56.4	16	46.09	50	43.4	9
Dez. 6	8.09	30	45.6	1	61.17	25	54.6	20	49.04	25	54.8	15	46.59	44	44.3	11
16	8.39	26	45.5	1	61.42	21	56.6	20	49.29	21	53.3	15	47.03	38	45.4	16
26	8.65	20	45.6	3	61.63	16	58.6	19	49.50	17	51.8	15	47.41	30	47.0	17
36	8.85		45.9		61.79		60.5		49.67		50.3		47.71		48.7	
Mittl. Ort	2.94		49.8		57.19		57.8		44.91		55.5		39.17		54.1	
sec δ, tg δ	1.180		+0.627		1.002		−0.068		1.004		+0.095		1.937		+1.659	

[1] AR. der Mitte, Dekl. des folgenden helleren Sterns.

[2] Ort des Hauptsterns. Die jährliche Parallaxe ist bereits angebracht.

1913	294) κ Geminorum. AR.		Dekl. +		295) β Geminorum. AR.		Dekl. +		296) π Geminorum. AR.		Dekl. +		297) ζ Volantis. AR.		Dekl. —	
	7h 39m		24° 36′		7h 39m		28° 14′		7h 41m		33° 37′		7h 42m		72° 23′	
Jan. 0	13.27	18	31.3	1	61.15	18	17.9	1	55.59	20	51.9	5	57.28	8	37.1	38
10	13.45	12	31.2	1	61.33	13	18.0	3	55.79	13	52.4	6	57.36	6	40.9	38
20	13.57	7	31.3	2	61.46	7	18.3	4	55.92	8	53.0	7	57.30	19	44.7	36
30	13.64	2	31.5	3	61.53	1	18.7	6	56.00	2	53.7	9	57.11	33	48.3	35
Febr. 9	13.66	4	31.8	4	61.54	4	19.3	6	56.02	4	54.6	9	56.78	45	51.8	31
19	13.62	9	32.2	5	61.50	9	19.9	6	55.98	9	55.5	8	56.33	55	54.9	28
März 1	13.53	12	32.7	5	61.41	12	20.5	7	55.89	13	56.3	8	55.78	63	57.7	23
11	13.41	15	33.2	4	61.29	15	21.2	5	55.76	16	57.1	7	55.15	70	60.0	19
21	13.26	16	33.6	4	61.14	17	21.7	5	55.60	18	57.8	7	54.45	74	61.9	14
31	13.10	17	34.0	4	60.97	18	22.2	4	55.42	19	58.5	4	53.71	76	63.3	8
April 10	12.93	16	34.4	2	60.79	17	22.6	2	55.23	18	58.9	2	52.95	76	64.1	3
20	12.77	15	34.6	1	60.62	16	22.8	1	55.05	17	59.1	0	52.19	74	64.4	1
30	12.62	12	34.7	1	60.46	13	22.9	0	54.88	14	59.1	1	51.45	71	64.3	8
Mai 10	12.50	10	34.8	1	60.33	10	22.9	2	54.74	11	59.0	3	50.74	65	63.5	13
20	12.40	6	34.7	1	60.23	6	22.7	3	54.63	7	58.7	5	50.09	58	62.2	18
30	12.34	2	34.6	2	60.17	3	22.4	3	54.56	3	58.2	6	49.51	50	60.4	21
Juni 9	12.32	1	34.4	2	60.14	1	22.1	4	54.53	1	57.6	7	49.01	40	58.3	25
19	12.33	5	34.2	3	60.15	5	21.7	5	54.54	5	56.9	8	48.61	30	55.8	28
29	12.38	9	33.9	3	60.20	9	21.2	6	54.59	9	56.1	8	48.31	19	53.0	31
Juli 9	12.47	14	33.6	4	60.29	14	20.6	6	54.68	15	55.3	10	48.12	6	49.9	35
19	12.61	16	33.2	4	60.43	17	20.0	6	54.83	17	54.3	10	48.06	6	46.4	32
29	12.77	19	32.8	5	60.60	19	19.4	7	55.00	21	53.3	9	48.12	18	43.2	32
Aug. 8	12.96	23	32.3	5	60.79	23	18.7	7	55.21	24	52.4	10	48.30	31	40.0	29
18	13.19	24	31.8	6	61.02	25	18.0	7	55.45	26	51.4	10	48.61	41	37.1	27
28	13.43	27	31.2	6	61.27	28	17.3	9	55.71	29	50.4	11	49.02	50	34.4	23
Sept. 7	13.70	30	30.6	7	61.55	30	16.4	8	56.00	31	49.3	10	49.52	62	32.1	18
17	14.00	30	29.9	8	61.85	31	15.6	9	56.31	34	48.3	10	50.14	67	30.3	13
27	14.30	33	29.1	9	62.16	34	14.7	9	56.65	35	47.3	10	50.81	73	29.0	6
Okt. 7	14.63	34	28.2	9	62.50	35	13.8	10	57.00	37	46.3	10	51.54	76	28.4	0
17	14.97	35	27.3	10	62.85	35	12.8	9	57.37	37	45.3	9	52.30	76	28.4	6
27	15.32	35	26.3	9	63.20	36	11.9	8	57.74	38	44.4	8	53.06	75	29.0	14
Nov. 6	15.67	34	25.4	9	63.56	36	11.1	8	58.12	38	43.6	6	53.81	70	30.4	19
16	16.01	34	24.5	8	63.92	34	10.3	7	58.50	36	43.0	6	54.51	62	32.3	25
26	16.35	31	23.7	8	64.26	32	9.6	6	58.86	34	42.4	3	55.13	54	34.8	30
Dez. 6	16.66	29	22.9	5	64.58	29	9.0	4	59.20	31	42.1	1	55.67	42	37.8	34
16	16.95	24	22.4	4	64.87	26	8.6	2	59.51	27	42.0	1	56.09	30	41.2	36
26	17.19	20	22.0	3	65.13	20	8.4	0	59.78	22	42.1	3	56.39	16	44.8	39
36	17.39		21.7		65.33		8.4		60.00		42.4		56.55		48.7	
Mittl. Ort	11.85		26.8		59.67		13.8		54.00		48.3		53.72		50.2	
sec δ, tg δ	1.100		+0.458		1.135		+0.537		1.201		+0.665		3.307		−3.152	

1913	300) Gr. 1374. AR.	Δ	Dekl. +	Δ
	7h 49m		74° 8′	
Jan. 0	53.62	45	68.1	25
10	54.07	28	70.6	27
20	54.35	12	73.3	28
30	54.47	5	76.1	27
Febr. 9	54.42	22	78.8	26
19	54.20	36	81.4	23
März 1	53.84	48	83.7	20
11	53.36	57	85.7	16
21	52.79	64	87.3	11
31	52.15	67	88.4	6
April 10	51.48	67	89.0	1
20	50.81	64	89.1	5
30	50.17	59	88.6	10
Mai 10	49.58	50	87.6	15
20	49.08	40	86.1	18
30	48.68	29	84.3	22
Juni 9	48.39	17	82.1	25
19	48.22	4	79.6	27
29	48.18	9	76.9	28
Juli 9	48.27	24	74.1	32
19	[18] 48.51	35	70.9	29
29	48.86	47	68.0	29
Aug. 8	49.33	58	65.1	27
18	49.91	68	62.4	26
28	50.59	76	59.8	23
Sept. 7	51.35	84	57.5	21
17	52.19	91	55.4	17
27	53.10	96	53.7	14
Okt. 7	54.06	100	52.3	11
17	55.06	102	51.2	6
27	56.08	102	50.6	1
Nov. 6	57.10	99	50.5	3
16	58.09	95	50.8	8
26	59.04	89	51.6	12
Dez. 6	59.93	78	52.8	17
16	60.71	67	54.5	20
26	61.38	52	56.5	25
36	61.90		59.0	
Mittl. Ort	48.22		66.8	
sec δ, tg δ	3.662		+3.523	

1913	303) χ Argus. AR.	Δ	Dekl. —	Δ
	7h 54m		52° 44′	
Jan. 0	35.75	14	42.2	37
10	35.89	6	45.9	37
20	35.95	2	49.6	36
30	35.93	9	53.2	33
Febr. 9	35.84	15	56.5	30
19	35.69	22	59.5	27
März 1	35.47	25	62.2	22
11	35.22	30	64.4	18
21	34.92	32	66.2	12
31	34.60	33	67.4	8
April 10	34.27	34	68.2	3
20	33.93	32	68.5	3
30	33.61	30	68.2	7
Mai 10	33.31	27	67.5	13
20	33.04	23	66.2	16
30	32.81	20	64.6	21
Juni 9	32.61	14	62.5	24
19	32.47	9	60.1	27
29	32.38	4	57.4	29
Juli 9	32.34	1	54.5	30
19	[19] 32.35	9	51.5	33
29	32.44	13	48.2	30
Aug. 8	32.57	19	45.2	28
18	32.76	24	42.4	25
28	33.00	29	39.9	21
Sept. 7	33.29	33	37.8	17
17	33.62	37	36.1	12
27	33.99	40	34.9	5
Okt. 7	34.39	42	34.4	1
17	34.81	43	34.5	7
27	35.24	43	35.2	14
Nov. 6	35.67	41	36.6	20
16	36.08	39	38.6	25
26	36.47	35	41.1	30
Dez. 6	36.82	30	44.1	33
16	37.12	24	47.4	36
26	37.36	17	51.0	37
36	37.53		54.7	
Mittl. Ort	34.05		54.6	
sec δ, tg δ	1.652		−1.315	

1913	305) χ Geminorum. AR.	Δ	Dekl. +	Δ
	7h 58m		28° 2′	
Jan. 0	12.12	20	23.8	0
10	12.32	14	23.8	2
20	12.46	9	24.0	4
30	12.55	4	24.4	5
Febr. 9	12.59	2	24.9	6
19	12.57	7	25.5	7
März 1	12.50	11	26.2	7
11	12.39	14	26.9	6
21	12.25	16	27.5	6
31	12.09	17	28.1	4
April 10	11.92	17	28.5	4
20	11.75	16	28.9	2
30	11.59	13	29.1	0
Mai 10	11.46	11	29.1	0
20	11.35	8	29.1	2
30	11.27	4	28.9	4
Juni 9	11.23	0	28.5	4
19	11.23	3	28.1	4
29	11.26	7	27.7	6
Juli 9	11.33	11	27.1	6
19	[20] 11.44	16	26.5	7
29	11.60	18	25.8	8
Aug. 8	11.78	21	25.0	8
18	11.99	23	24.2	8
28	12.22	26	23.4	9
Sept. 7	12.48	29	22.5	10
17	12.77	31	21.5	10
27	13.08	33	20.5	11
Okt. 7	13.41	34	19.4	11
17	13.75	36	18.3	11
27	14.11	36	17.2	10
Nov. 6	14.47	36	16.2	10
16	14.83	35	15.2	9
26	15.18	33	14.3	7
Dez. 6	15.51	31	13.6	5
16	15.82	27	13.1	4
26	16.09	23	12.7	1
36	16.32		12.6	
Mittl. Ort	10.65		20.6	
sec δ, tg δ	1.133		+0.533	

1913	306) ζ Argus. AR.	Δ	Dekl. —	Δ
	8h 0m		39° 45′	
Jan. 0	32.88	14	16.0	34
10	33.02	9	19.4	34
20	33.11	3	22.8	33
30	33.14	4	26.1	30
Febr. 9	33.10	9	29.1	27
19	33.01	13	31.8	24
März 1	32.88	18	34.2	19
11	32.70	21	36.1	16
21	32.49	23	37.7	11
31	32.26	24	38.8	6
April 10	32.02	24	39.4	2
20	31.78	23	39.6	3
30	31.55	21	39.3	7
Mai 10	31.34	19	38.6	11
20	31.15	16	37.5	16
30	30.99	12	35.9	19
Juni 9	30.87	8	34.0	21
19	30.79	5	31.9	25
29	30.74	0	29.4	26
Juli 9	30.74	4	26.8	27
19	[20] 30.78	8	24.1	30
29	30.86	12	21.1	26
Aug. 8	30.98	17	18.5	25
18	31.15	20	16.0	22
28	31.35	24	13.8	19
Sept. 7	31.59	28	11.9	14
17	31.87	30	10.5	9
27	32.17	33	9.6	3
Okt. 7	32.50	35	9.3	2
17	32.85	36	9.5	8
27	33.21	36	10.3	14
Nov. 6	33.57	36	11.7	20
16	33.93	34	13.7	24
26	34.27	32	16.1	28
Dez. 6	34.59	28	18.9	32
16	34.87	23	22.1	34
26	35.10	19	25.5	34
36	35.29		28.9	
Mittl. Ort	31.53		27.3	
sec δ, tg δ	1.301		−0.832	

1913	307) 27 Lyncis. AR.		Dekl. +		308) ι Navis. AR.		Dekl. —		309) γ Argus. AR.		Dekl. —		310) Br. 1147. AR.		Dekl. +	
	8h 1m		51° 45′		8h 3m		24° 2′		8h 6m		47° 4′		8h 8m		76° 1′	
Jan. 0	57.41	26	31.3	14	51.46	16	61.2	29	52.51	15	34.8	37	44.64	56	26.1	25
10	57.67	20	32.7	16	51.62	11	64.1	28	52.66	9	38.5	36	45.20	38	28.6	27
20	57.87	11	34.3	18	51.73	6	66.9	26	52.75	2	42.1	35	45.58	19	31.3	28
30	57.98	4	36.1	18	51.79	1	69.5	24	52.77	5	45.6	32	45.77	0	34.1	28
Febr. 9	58.02	4	37.9	18	51.80	4	71.9	22	52.72	10	48.8	30	45.77	18	36.9	28
19	57.98	11	39.7	17	51.76	9	74.1	18	52.62	16	51.8	26	45.59	36	39.7	25
März 1	57.87	17	41.4	16	51.67	13	75.9	14	52.46	21	54.4	23	45.23	50	42.2	22
11	57.70	21	43.0	13	51.54	16	77.3	12	52.25	24	56.7	17	44.73	62	44.4	18
21	57.49	25	44.3	10	51.38	17	78.5	7	52.01	27	58.4	14	44.11	70	46.2	13
31	57.24	26	45.3	7	51.21	19	79.2	4	51.74	28	59.8	8	43.41	75	47.5	9
April 10	56.98	26	46.0	3	51.02	18	79.6	0	51.46	28	60.6	3	42.66	77	48.4	2
20	56.72	25	46.3	0	50.84	18	79.6	3	51.18	27	60.9	1	41.89	75	48.6	3
30	56.47	22	46.3	4	50.66	16	79.3	7	50.91	26	60.8	6	41.14	70	48.3	8
Mai 10	56.25	18	45.9	7	50.50	14	78.6	10	50.65	23	60.2	11	40.44	62	47.5	13
20	56.07	14	45.2	11	50.36	12	77.6	13	50.42	20	59.1	15	39.82	52	46.2	17
30	55.93	9	44.1	13	50.24	8	76.3	16	50.22	17	57.6	19	39.30	40	44.5	21
Juni 9	55.84	4	42.8	15	50.16	4	74.7	17	50.05	12	55.7	22	38.90	27	42.4	25
19	55.80	2	41.3	17	50.12	1	73.0	20	49.93	8	53.5	26	38.63	13	39.9	27
29	55.82	7	39.6	18	50.11	2	71.0	21	49.85	3	50.9	27	38.50	1	37.2	28
Juli 9	55.89	13	37.8	20	50.13	6	68.9	21	49.82	2	48.2	28	38.51	16	34.4	30
19	56.02	19	35.8	21	50.19	11	66.8	24	49.84	7	45.4	32	38.67	33	31.4	34
29	[21] 56.21	23	33.7	21	[21] 50.30	14	64.4	21	[22] 49.91	12	42.2	29	[23] 39.00	44	28.0	30
Aug. 8	56.44	28	31.6	20	50.44	17	62.3	18	50.03	17	39.3	27	39.44	57	25.0	30
18	56.72	31	29.6	19	50.61	19	60.5	17	50.20	21	36.6	24	40.01	69	22.0	28
28	57.03	36	27.7	19	50.80	23	58.8	13	50.41	25	34.2	21	40.70	80	19.2	26
Sept. 7	57.39	39	25.8	17	51.03	25	57.5	9	50.66	30	32.1	16	41.50	90	16.6	23
17	57.78	41	24.1	16	51.28	27	56.6	6	50.96	33	30.5	11	42.40	98	14.3	20
27	58.19	45	22.5	15	51.55	29	56.0	0	51.29	36	29.4	6	43.38	104	12.3	17
Okt. 7	58.64	47	21.0	12	51.84	31	56.0	4	51.65	37	28.8	1	44.42	110	10.6	13
17	59.11	48	19.8	10	52.15	32	56.4	10	52.02	40	28.9	7	45.52	113	9.3	9
27	59.59	50	18.8	8	52.47	32	57.4	14	52.42	40	29.6	13	46.65	115	8.4	5
Nov. 6	60.09	49	18.0	4	52.79	32	58.8	19	52.82	39	30.9	19	47.80	113	7.9	1
16	60.58	47	17.6	1	53.11	31	60.7	22	53.21	37	32.8	24	48.93	108	8.0	5
26	61.05	45	17.5	3	53.42	29	62.9	26	53.58	34	35.2	28	50.01	102	8.5	11
Dez. 6	61.50	41	17.8	6	53.71	26	65.5	28	53.92	30	38.0	33	51.03	92	9.6	15
16	61.91	36	18.4	9	53.97	23	68.3	28	54.22	24	41.3	35	51.95	80	11.1	20
26	62.27	30	19.3	12	54.20	18	71.1	30	54.46	19	44.8	36	52.75	65	13.1	22
36	62.57		20.5		54.38		74.1		54.65		48.4		53.40		15.3	
Mittl. Ort	55.16		30.3		50.31		70.6		51.05		47.2		38.50		26.6	
sec δ, tg δ	1.616		+1.269		1.095		−0.446		1.469		−1.075		4.141		+4.019	

1913	311) 20 Navis. AR.	Δ	Dekl. −	Δ	312) β Cancri. AR.	Δ	Dekl. +	Δ	314) 31 Lyncis. AR.	Δ	Dekl. +	Δ	315) ε Argus. AR.	Δ	Dekl. −	Δ
	$8^h\ 9^m$		15° 31'		$8^h\ 11^m$		9° 27'		$8^h\ 16^m$		43° 27'		$8^h\ 20^m$		59° 13'	
Jan. 0	21.18	16	23.5	26	49.11	19	20.4	11	54.92	26	65.3	8	45.61	18	30.7	38
10	21.34	12	26.1	24	49.30	14	19.3	10	55.18	19	66.1	11	45.79	10	34.5	38
20	21.46	7	28.5	22	49.44	9	18.3	8	55.37	13	67.2	13	45.89	0	38.3	38
30	21.53	2	30.7	20	49.53	4	17.5	6	55.50	6	68.5	14	45.89	7	42.1	36
Febr. 9	21.55	3	32.7	18	49.57	1	16.9	5	55.56	1	69.9	14	45.82	16	45.7	33
19	21.52	8	34.5	15	49.56	5	16.4	2	55.55	8	71.3	15	45.66	22	49.0	30
März 1	21.44	10	36.0	11	49.51	9	16.2	1	55.47	12	72.8	13	45.44	29	52.0	27
11	21.34	14	37.1	9	49.42	12	16.1	0	55.35	16	74.1	12	45.15	33	54.7	22
21	21.20	16	38.0	6	49.30	14	16.1	2	55.19	19	75.3	10	44.82	37	56.9	17
31	21.04	16	38.6	3	49.16	15	16.3	2	55.00	21	76.3	8	44.45	38	58.6	12
April 10	20.88	17	38.9	1	49.01	15	16.5	3	54.79	22	77.1	4	44.07	40	59.8	7
20	20.71	15	38.8	3	48.86	14	16.8	3	54.57	20	77.5	2	43.67	40	60.5	2
30	20.56	14	38.5	6	48.72	12	17.1	4	54.37	18	77.7	1	43.27	37	60.7	3
Mai 10	20.42	12	37.9	9	48.60	10	17.5	4	54.19	16	77.6	3	42.90	36	60.4	9
20	20.30	10	37.0	11	48.50	8	17.9	4	54.03	12	77.3	7	42.54	32	59.5	14
30	20.20	6	35.9	13	48.42	4	18.3	5	53.91	8	76.6	9	42.22	28	58.1	17
Juni 9	20.14	4	34.6	15	48.38	2	18.8	5	53.83	4	75.7	11	41.94	22	56.4	22
19	20.10	0	33.1	16	48.36	2	19.3	5	53.79	1	74.6	13	41.72	18	54.2	25
29	20.10	3	31.5	17	48.38	5	19.8	4	53.80	6	73.3	14	41.54	11	51.7	28
Juli 9	20.13	7	29.8	17	48.43	8	20.2	5	53.86	10	71.9	15	41.43	5	48.9	30
19	20.20	10	28.1	20	48.51	13	20.7	4	53.96	16	70.4	17	41.38	3	45.9	34
29	[23] 20.30	13	26.1	16	[23] 48.64	14	21.1	3	[25] 54.12	18	68.7	17	[26] 41.41	9	42.5	30
Aug. 8	20.43	16	24.5	15	48.78	17	21.4	1	54.30	22	67.0	17	41.50	15	39.5	30
18	20.59	19	23.0	13	48.95	20	21.5	1	54.52	26	65.3	18	41.65	23	36.5	27
28	20.78	21	21.7	10	49.15	22	21.6	2	54.78	29	63.5	17	41.88	29	33.8	24
Sept. 7	20.99	24	20.7	6	49.37	25	21.4	3	55.07	32	61.8	16	42.17	34	31.4	20
17	21.23	26	20.1	3	49.62	27	21.1	6	55.39	35	60.2	16	42.51	40	29.4	15
27	21.49	29	19.8	1	49.89	28	20.5	7	55.74	38	58.6	15	42.91	44	27.9	9
Okt. 7	21.78	30	19.9	6	50.17	31	19.8	10	56.12	40	57.1	14	43.35	47	27.0	3
17	22.08	31	20.5	10	50.48	32	18.8	12	56.52	42	55.7	13	43.82	49	26.7	4
27	22.39	32	21.5	14	50.80	32	17.6	13	56.94	43	54.4	10	44.31	50	27.1	10
Nov. 6	22.71	32	22.9	18	51.12	33	16.3	15	57.37	43	53.4	8	44.81	49	28.1	17
16	23.03	31	24.7	21	51.45	32	14.8	15	57.80	42	52.6	5	45.30	47	29.8	23
26	23.34	29	26.8	23	51.77	31	13.3	15	58.22	41	52.1	3	45.77	42	32.1	27
Dez. 6	23.63	27	29.1	25	52.08	28	11.8	15	58.63	38	51.8	1	46.19	37	34.8	32
16	23.90	23	31.6	26	52.36	25	10.3	14	59.01	33	51.9	3	46.56	30	38.0	36
26	24.13	20	34.2	26	52.61	21	8.9	13	59.34	29	52.2	7	46.86	23	41.6	37
36	24.33		36.8		52.82		7.6		59.63		52.9		47.09		45.3	
Mittl. Ort	20.06		31.9		47.91		15.6		53.07		64.8		43.81		45.0	
sec δ, tg δ	1.038		−0.278		1.014		+0.167		1.378		+0.948		1.955		−1.680	

1913	316) Br. 1197. AR.		316) Dekl. −		317) o Ursae maj. AR.		317) Dekl. +		318) ϑ Chamael. AR.		318) Dekl. −		320) Gr. 1450. AR.		320) Dekl. +	
	8h 21m		3° 37′		8h 23m		61° 0′		8h 23m		77° 11′		8h 27m		38° 18′	
Jan. 0	19.94	19	12.6	19	5.74	35	34.7	17	20.16	26	59.0	37	17.56	25	56.3	5
10	20.13	14	14.5	18	6.09	26	36.4	20	20.42	6	62.7	39	17.81	20	56.8	7
20	20.27	9	16.3	16	6.35	17	38.4	22	20.48	13	66.6	38	18.01	13	57.5	9
30	20.36	4	17.9	14	6.52	6	40.6	23	20.35	31	70.4	37	18.14	7	58.4	10
Febr. 9	20.40	0	19.3	12	6.58	3	42.9	22	20.04	47	74.1	35	18.21	0	59.4	13
19	20.40	5	20.5	10	6.55	12	45.1	22	19.57	63	77.6	32	18.21	5	60.7	13
März 1	20.35	9	21.5	6	6.43	19	47.3	20	18.94	75	80.8	29	18.16	10	62.0	12
11	20.26	12	22.1	5	6.24	27	49.3	17	18.19	87	83.7	25	18.06	14	63.2	11
21	20.14	14	22.6	3	5.97	31	51.0	13	17.32	94	86.2	20	17.92	16	64.3	10
31	20.00	15	22.9	0	5.66	33	52.3	10	16.38	100	88.2	15	17.76	19	65.3	7
April 10	19.85	14	22.9	1	5.33	35	53.3	5	15.38	103	89.7	10	17.57	19	66.0	6
20	19.71	14	22.8	4	4.98	34	53.8	1	14.35	103	90.7	5	17.38	19	66.6	3
30	19.57	13	22.4	4	4.64	31	53.9	4	13.32	101	91.2	1	17.19	17	66.9	0
Mai 10	19.44	11	22.0	7	4.33	28	53.5	7	12.31	96	91.1	6	17.02	14	66.9	2
20	19.33	9	21.3	7	4.05	23	52.8	12	11.35	89	90.5	11	16.88	11	66.7	4
30	19.24	6	20.6	9	3.82	17	51.6	15	10.46	83	89.4	16	16.77	8	66.3	6
Juni 9	19.18	2	19.7	10	3.65	11	50.1	19	9.63	70	87.8	20	16.69	4	65.7	9
19	19.16	0	18.7	11	3.54	4	48.2	20	8.93	58	85.8	24	16.65	0	64.8	10
29	19.16	3	17.6	11	3.50	3	46.2	23	8.35	45	83.4	27	16.65	5	63.8	11
Juli 9	19.19	7	16.5	11	3.53	9	43.9	24	7.90	29	80.7	29	16.70	8	62.7	13
19	19.26	10	15.4	12	3.62	18	41.5	27	7.61	13	77.8	34	16.78	13	61.4	14
29	19.36	12	14.2	11	3.80	23	38.8	25	7.48	5	74.4	32	16.91	16	60.0	15
Aug. 8	19.48	15	13.1	8	4.03	29	36.3	25	7.53	22	71.2	31	17.07	20	58.5	15
18	19.63	18	12.3	7	4.32	35	33.8	25	7.75	39	68.1	29	17.27	23	57.0	15
28	19.81	21	11.6	4	4.67	41	31.3	25	8.14	54	65.2	26	17.50	26	55.5	16
Sept. 7	20.02	23	11.2	2	5.08	45	28.8	22	8.68	69	62.6	22	17.76	29	53.9	16
17	20.25	26	11.0	1	5.53	49	26.6	21	9.37	81	60.4	18	18.05	32	52.3	15
27	20.51	27	11.1	5	6.02	53	24.5	18	10.18	91	58.6	12	18.37	35	50.8	15
Okt. 7	20.78	30	11.6	7	6.55	57	22.7	15	11.09	98	57.4	5	18.72	37	49.3	15
17	21.08	31	12.3	11	7.12	60	21.2	13	12.07	102	56.9	1	19.09	38	47.8	14
27	21.39	31	13.4	14	7.72	60	19.9	9	13.09	102	57.0	7	19.47	40	46.4	12
Nov. 6	21.70	32	14.8	17	8.32	61	19.0	5	14.11	99	57.7	14	19.87	41	45.2	10
16	22.02	32	16.5	18	8.93	60	18.5	0	15.10	92	59.1	20	20.28	40	44.2	8
26	22.34	30	18.3	20	9.53	56	18.5	3	16.02	82	61.1	26	20.68	39	43.4	6
Dez. 6	22.64	28	20.3	21	10.09	53	18.8	7	16.84	68	63.7	31	21.07	36	42.8	3
16	22.92	24	22.4	21	10.62	46	19.5	12	17.52	53	66.8	34	21.43	32	42.5	0
26	23.16	21	24.5	20	11.08	40	20.7	16	18.05	35	70.2	36	21.75	28	42.5	3
36	23.37		26.5		11.48		22.3		18.40		73.8		22.03		42.8	
Mittl. Ort	18.85		19.1		2.80		36.0		16.08		74.9		15.89		56.0	
sec δ, tg δ	1.002		−0.063		2.063		+1.805		4.516		−4.404		1.274		+0.790	

1913	321) η Cancri.				326) δ Cancri.				327) α Pyxidis.				328) ι Cancri.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +	
	8h 27m		20° 44′		8h 39m		18° 28′		8h 40m		32° 52′		8h 41m		29° 4′	
Jan. 0	42.10	22	17.3	6	45.83	22	31.3	8	6.82	19	8.6	34	27.56	25	44.3	1
10	42.32	17	16.7	4	46.05	18	30.5	5	7.01	15	12.0	32	27.81	19	44.2	1
20	42.49	11	16.3	2	46.23	13	30.0	3	7.16	8	15.2	31	28.00	14	44.3	4
30	42.60	7	16.1	1	46.36	7	29.7	1	7.24	3	18.3	29	28.14	8	44.7	5
Febr. 9	42.67	1	16.2	2	46.43	2	29.6	0	7.27	2	21.2	27	28.22	2	45.2	7
19	42.68	4	16.4	3	46.45	2	29.6	3	7.25	7	23.9	24	28.24	2	45.9	8
März 1	42.64	8	16.7	5	46.43	7	29.9	3	7.18	12	26.3	21	28.22	8	46.7	8
11	42.56	12	17.2	5	46.36	11	30.2	4	7.06	15	28.4	16	28.14	11	47.5	9
21	42.44	14	17.7	5	46.25	13	30.6	5	6.91	18	30.0	13	28.03	14	48.4	8
31	42.30	14	18.2	5	46.12	14	31.1	4	6.73	19	31.3	9	27.89	16	49.2	7
April 10	42.16	16	18.7	4	45.98	15	31.5	4	6.54	19	32.2	5	27.73	16	49.9	6
20	42.00	15	19.1	3	45.83	14	31.9	4	6.35	20	32.7	0	27.57	16	50.5	4
30	41.85	13	19.4	3	45.69	13	32.3	4	6.15	19	32.7	3	27.41	15	50.9	2
Mai 10	41.72	11	19.7	2	45.56	12	32.7	3	5.96	16	32.4	8	27.26	13	51.1	1
20	41.61	9	19.9	2	45.44	9	33.0	2	5.80	15	31.6	11	27.13	10	51.2	0
30	41.52	5	20.1	0	45.35	6	33.2	1	5.65	12	30.5	14	27.03	7	51.2	2
Juni 9	41.47	3	20.1	0	45.29	3	33.3	1	5.53	9	29.1	18	26.96	4	51.0	4
19	41.44	1	20.1	1	45.26	1	33.4	0	5.44	6	27.3	20	26.92	0	50.6	5
29	41.45	4	20.0	2	45.25	3	33.4	1	5.38	2	25.3	22	26.92	2	50.1	6
Juli 9	41.49	7	19.8	2	45.28	6	33.3	1	5.36	1	23.1	23	26.94	7	49.5	8
19	41.56	12	19.6	4	45.34	9	33.2	3	5.37	5	20.8	23	27.01	9	48.7	8
29	[27] 41.68	14	19.2	4	45.43	14	32.9	3	5.42	9	18.5	26	27.10	14	47.9	11
Aug. 8	41.82	17	18.8	5	[30] 45.57	15	32.6	5	[31] 5.51	12	15.9	23	[31] 27.24	17	46.8	10
18	41.99	19	18.3	6	45.72	18	32.1	5	5.63	16	13.6	20	27.41	19	45.8	12
28	42.18	23	17.7	8	45.90	21	31.6	7	5.79	20	11.6	18	27.60	23	44.6	12
Sept. 7	42.41	24	16.9	8	46.11	24	30.9	9	5.99	23	9.8	13	27.83	25	43.4	13
17	42.65	28	16.1	10	46.35	26	30.0	10	6.22	26	8.5	10	28.08	28	42.1	14
27	42.93	29	15.1	12	46.61	28	29.0	11	6.48	30	7.5	4	28.36	31	40.7	15
Okt. 7	43.22	32	13.9	12	46.89	31	27.9	13	6.78	31	7.1	0	28.67	33	39.2	14
17	43.54	33	12.7	13	47.20	33	26.6	14	7.09	34	7.1	7	29.00	35	37.8	15
27	43.87	34	11.4	13	47.53	33	25.2	14	7.43	35	7.8	11	29.35	36	36.3	14
Nov. 6	44.21	35	10.1	14	47.86	35	23.8	15	7.78	35	8.9	17	29.71	37	34.9	14
16	44.56	35	8.7	13	48.21	34	22.3	14	8.13	35	10.6	22	30.08	37	33.5	11
26	44.91	33	7.4	12	48.55	34	20.9	14	8.48	33	12.8	26	30.45	36	32.4	10
Dez. 6	45.24	31	6.2	11	48.89	31	19.5	13	8.81	30	15.4	29	30.81	34	31.4	9
16	45.55	28	5.1	9	49.20	29	18.2	11	9.11	27	18.3	31	31.15	31	30.5	5
26	45.83	25	4.2	7	49.49	24	17.1	9	9.38	22	21.4	32	31.46	27	30.0	3
36	46.08		3.5		49.73		16.2		9.60		24.6		31.73		29.7	
Mittl. Ort	40.81		14.6		44.59		28.9		5.75		20.1		26.15		43.8	
sec δ, tg δ	1.069		+0.379		1.054		+0.334		1.191		−0.646		1.144		+0.556	

1913	330) δ Argus. AR.		Dekl. −		334) ζ Hydrae. AR.		Dekl. +		336) c Carinae. AR.		Dekl. −		335) ι Ursae maj. AR.		Dekl. +	
	8h 42m		54° 23′		8h 50m		6° 16′		8h 53m		60° 18′		8h 53m		48° 22′	
Jan. 0	19.51	22	7.4	38	48.85	22	42.2	15	6.16	25	26.5	38	17.45	31	59.4	8
10	19.73	13	11.2	37	49.07	18	40.7	13	6.41	17	30.3	38	17.76	26	60.2	12
20	19.86	6	14.9	38	49.25	12	39.4	11	6.58	7	34.1	39	18.02	18	61.4	14
30	19.92	1	18.7	36	49.37	8	38.3	9	6.65	1	38.0	37	18.20	11	62.8	16
Febr. 9	19.91	8	22.3	34	49.45	2	37.4	7	6.64	10	41.7	36	18.31	3	64.4	18
19	19.83	16	25.7	31	49.47	2	36.7	4	6.54	17	45.3	33	18.34	4	66.2	18
März 1	19.67	20	28.8	28	49.45	6	36.3	3	6.37	24	48.6	30	18.30	9	68.0	17
11	19.47	26	31.6	23	49.39	9	36.0	1	6.13	30	51.6	26	18.21	15	69.7	16
21	19.21	29	33.9	19	49.30	12	35.9	1	5.83	34	54.2	21	18.06	19	71.3	14
31	18.92	31	35.8	15	49.18	13	36.0	1	5.49	37	56.3	17	17.87	21	72.7	11
April 10	18.61	33	37.3	9	49.05	14	36.1	3	5.12	39	58.0	12	17.66	23	73.8	8
20	18.28	32	38.2	4	48.91	13	36.4	4	4.73	39	59.2	6	17.43	23	74.6	5
30	17.96	32	38.6	1	48.78	13	36.8	4	4.34	39	59.8	1	17.20	22	75.1	1
Mai 10	17.64	30	38.5	6	48.65	11	37.2	4	3.95	38	59.9	3	16.98	20	75.2	2
20	17.34	27	37.9	11	48.54	9	37.6	5	3.57	34	59.6	9	16.78	16	75.0	5
30	17.07	25	36.8	15	48.45	7	38.1	6	3.23	32	58.7	14	16.62	13	74.5	9
Juni 9	16.82	20	35.3	20	48.38	4	38.7	5	2.91	27	57.3	18	16.49	9	73.6	11
19	16.62	15	33.3	23	48.34	1	39.2	6	2.64	22	55.5	22	16.40	4	72.5	14
29	16.47	11	31.0	26	48.33	1	39.8	6	2.42	17	53.3	26	16.36	0	71.1	16
Juli 9	16.36	6	28.4	27	48.34	4	40.4	5	2.25	10	50.7	28	16.36	5	69.5	18
19	16.30	0	25.7	30	48.38	8	40.9	5	2.15	4	47.9	29	16.41	9	67.7	19
29	16.30	7	22.7	32	48.46	11	41.4	4	2.11	3	45.0	33	16.50	15	65.8	23
Aug. 8	[1]16.37	12	19.5	29	[2]48.57	13	41.8	2	[3]2.14	10	41.7	30	[3]16.65	18	63.5	21
18	16.49	18	16.6	27	48.70	16	42.0	1	2.24	17	38.7	29	16.83	22	61.4	22
28	16.67	23	13.9	24	48.86	19	42.1	1	2.41	25	35.8	26	17.05	27	59.2	22
Sept. 7	16.90	29	11.5	21	49.05	21	42.0	3	2.66	30	33.2	22	17.32	30	57.0	21
17	17.19	34	9.4	15	49.26	24	41.7	6	2.96	38	31.0	18	17.62	35	54.9	21
27	17.53	38	7.9	11	49.50	27	41.1	8	3.34	42	29.2	13	17.97	38	52.8	20
Okt. 7	17.91	42	6.8	4	49.77	29	40.3	10	3.76	47	27.9	7	18.35	41	50.8	19
17	18.33	44	6.4	2	50.06	30	39.3	13	4.23	49	27.2	0	18.76	43	48.9	17
27	18.77	45	6.6	9	50.36	32	38.0	15	4.72	52	27.2	7	19.19	45	47.2	14
Nov. 6	19.22	46	7.5	15	50.68	33	36.5	16	5.24	52	27.9	13	19.64	46	45.8	12
16	19.68	44	9.0	21	51.01	33	34.9	17	5.76	50	29.2	19	20.10	47	44.6	8
26	20.12	41	11.1	26	51.34	32	33.2	18	6.26	48	31.1	25	20.57	45	43.8	5
Dez. 6	20.53	37	13.7	31	51.66	31	31.4	18	6.74	42	33.6	29	21.02	43	43.3	1
16	20.90	32	16.8	34	51.97	28	29.6	17	7.16	37	36.5	34	21.45	39	43.2	3
26	21.22	25	20.2	37	52.25	24	27.9	16	7.53	29	39.9	37	21.84	35	43.5	6
36	21.47		23.9		52.49		26.3		7.82		43.6		22.19		44.1	
Mittl. Ort	18.08		22.2		47.78		38.1		4.62		42.4		15.46		62.2	
sec δ, tg δ	1.718		−1.396		1.006		+0.110		2.019		−1.754		1.506		+0.126	

1913	337) α Cancri. AR.		Dekl. +		339) 10 Ursae maj. AR.		Dekl. +		341) κ Ursae maj. AR.		Dekl. +		343) α Volantis. AR.		Dekl. −	
	$8^h 53^m$		12° 11′		$8^h 54^m$		42° 7′		$8^h 57^m$		47° 29′		$9^h 1^m$		66° 2′	
Jan. 0	44.98	23	45.3	12	61.60	30	38.2	6	43.46	33	61.6	8	6.33	29	38.4	37
10	45.21	18	44.1	10	61.90	24	38.8	8	43.79	25	62.4	11	6.62	19	42.1	39
20	45.39	14	43.1	7	62.14	17	39.6	10	44.04	19	63.5	14	6.81	9	46.0	39
30	45.53	8	42.4	6	62.31	10	40.6	13	44.23	12	64.9	16	6.90	2	49.9	38
Febr. 9	45.61	3	41.8	3	62.41	4	41.9	14	44.35	4	66.5	17	6.88	12	53.7	37
19	45.64	1	41.5	1	62.45	3	43.3	15	44.39	3	68.2	17	6.76	22	57.4	35
März 1	45.63	6	41.4	0	62.42	8	44.8	15	44.36	9	69.9	17	6.54	29	60.9	32
11	45.57	9	41.4	2	62.34	12	46.3	14	44.27	14	71.6	16	6.25	36	64.1	28
21	45.48	12	41.6	3	62.22	17	47.7	12	44.13	17	73.2	14	5.89	42	66.9	23
31	45.36	13	41.9	3	62.05	18	48.9	11	43.96	21	74.6	11	5.47	46	69.2	19
April 10	45.23	14	42.2	4	61.87	20	50.0	7	43.75	22	75.7	9	5.01	48	71.1	14
20	45.09	14	42.6	4	61.67	20	50.7	6	43.53	22	76.6	5	4.53	50	72.5	9
30	44.95	13	43.0	4	61.47	19	51.3	2	43.31	22	77.1	2	4.03	49	73.4	3
Mai 10	44.82	11	43.4	4	61.28	17	51.5	1	43.09	19	77.3	1	3.54	48	73.7	2
20	44.71	9	43.8	4	61.11	14	51.4	3	42.90	16	77.2	5	3.06	45	73.5	7
30	44.62	7	44.2	3	60.97	11	51.1	7	42.74	13	76.7	8	2.61	42	72.8	12
Juni 9	44.55	4	44.5	4	60.86	7	50.4	8	42.61	9	75.9	10	2.19	37	71.6	17
19	44.51	2	44.9	3	60.79	3	49.6	12	42.52	5	74.9	14	1.82	31	69.9	21
29	44.49	2	45.2	2	60.76	0	48.4	13	42.47	0	73.5	15	1.51	24	67.8	25
Juli 9	44.51	4	45.4	2	60.76	5	47.1	14	42.47	4	72.0	17	1.27	18	65.3	27
19	44.55	8	45.6	1	60.81	9	45.7	16	42.51	8	70.3	19	1.09	9	62.6	30
29	44.63	11	45.7	1	60.90	14	44.1	19	42.59	14	68.4	22	1.00	1	59.6	34
Aug. 8	44.74	13	45.8	1	61.04	17	42.2	19	42.73	18	66.2	21	0.99	9	56.2	30
18	44.87	17	45.7	3	61.21	20	40.3	19	42.91	22	64.1	22	1.08	17	53.2	30
28	45.04	19	45.4	5	61.41	24	38.4	19	43.13	25	61.9	21	1.25	26	50.2	27
Sept. 7	45.23	21	44.9	6	61.65	28	36.5	19	43.38	30	59.8	22	1.51	35	47.5	24
17	45.44	25	44.3	8	61.93	31	34.6	20	43.68	33	57.6	22	1.86	42	45.1	19
27	45.69	27	43.5	10	62.24	34	32.6	19	44.01	37	55.4	20	2.28	49	43.2	15
Okt. 7	45.96	29	42.5	12	62.58	37	30.7	18	44.38	40	53.4	19	2.77	55	41.7	8
17	46.25	31	41.3	14	62.95	39	28.9	16	44.78	43	51.5	17	3.32	58	40.9	2
27	46.56	33	39.9	15	63.34	42	27.3	15	45.21	45	49.8	15	3.90	61	40.7	4
Nov. 6	46.89	33	38.4	15	63.76	42	25.8	13	45.66	45	48.3	12	4.51	61	41.1	11
16	47.22	34	36.9	17	64.18	43	24.5	10	46.11	46	47.1	9	5.12	60	42.2	18
26	47.56	33	35.2	16	64.61	41	23.5	7	46.57	45	46.2	6	5.72	56	44.0	23
Dez. 6	47.89	31	33.6	16	65.02	39	22.8	4	47.02	43	45.6	2	6.28	50	46.3	29
16	48.20	29	32.0	15	65.41	36	22.4	1	47.45	40	45.4	2	6.78	43	49.2	33
26	48.49	25	30.5	13	65.77	32	22.3	4	47.85	34	45.6	6	7.21	35	52.5	36
36	48.74		29.2		66.09		22.7		48.19		46.2		7.56		56.1	
Mittl. Ort	43.85		42.4		59.88		40.4		41.53		64.7		4.56		55.3	
sec δ, tg δ	1.023		+0.216		1.348		+0.904		1.480		+1.091		2.464		−2.252	

1913	344) σ^2 Ursae maj. AR.		Dekl. +		345) λ Argus. AR.		Dekl. −		347) ϑ Hydrae. AR.		Dekl. +		348) β Argus. AR.		Dekl. −	
	$9^h 2^m$		67° 28′		$9^h 4^m$		43° 4′		$9^h 9^m$		2° 40′		$9^h 12^m$		69° 21′	
Jan. 0	48.93	50	74.0	17	48.69	23	37.4	34	51.33	23	58.9	17	16.86	35	13.6	37
10	49.43	40	75.7	20	48.92	17	40.8	36	51.56	19	57.2	16	17.21	23	17.3	39
20	49.83	28	77.7	24	49.09	12	44.4	35	51.75	15	55.6	14	17.44	11	21.2	39
30	50.11	17	80.1	25	49.21	4	47.9	34	51.90	9	54.2	11	17.55	0	25.1	39
Febr. 9	50.28	3	82.6	25	49.25	1	51.3	32	51.99	4	53.1	10	17.55	12	29.0	38
19	50.31	8	85.1	26	49.24	7	54.5	29	52.03	0	52.1	7	17.43	23	32.8	36
März 1	50.23	18	87.7	24	49.17	12	57.4	26	52.03	4	51.4	5	17.20	32	36.4	33
11	50.05	28	90.1	21	49.05	16	60.0	23	51.99	8	50.9	3	16.88	40	39.7	29
21	49.77	35	92.2	19	48.89	19	62.3	18	51.91	11	50.6	1	16.48	47	42.6	26
31	49.42	41	94.1	14	48.70	21	64.1	14	51.80	12	50.5	1	16.01	52	45.2	21
April 10	49.01	43	95.5	10	48.49	23	65.5	9	51.68	13	50.6	2	15.49	55	47.3	16
20	48.58	45	96.5	5	48.26	23	66.4	5	51.55	14	50.8	3	14.94	58	48.9	10
30	48.13	44	97.0	0	48.03	23	66.9	0	51.41	12	51.1	4	14.36	58	49.9	6
Mai 10	47.69	40	97.0	5	47.80	22	66.9	4	51.29	11	51.5	4	13.78	56	50.5	0
20	47.29	36	96.5	10	47.58	19	66.5	9	51.18	10	51.9	6	13.22	55	50.5	5
30	46.93	31	95.5	14	47.39	18	65.6	13	51.08	8	52.5	6	12.67	50	50.0	11
Juni 9	46.62	24	94.1	18	47.21	14	64.3	16	51.00	5	53.1	6	12.17	46	48.9	15
19	46.38	17	92.3	21	47.07	11	62.7	20	50.95	3	53.7	7	11.71	39	47.4	20
29	46.21	9	90.2	24	46.96	8	60.7	23	50.92	0	54.4	7	11.32	32	45.4	23
Juli 9	46.12	0	87.8	26	46.88	4	58.4	24	50.92	3	55.1	7	11.00	25	43.1	27
19	46.12	8	85.2	28	46.84	0	56.0	26	50.95	5	55.8	6	10.75	16	40.4	29
29	46.20	18	82.4	33	46.84	6	53.4	29	51.00	9	56.4	6	10.59	5	37.5	30
Aug. 8	46.38	24	79.1	30	46.90	9	50.5	26	51.09	11	57.0	4	10.54	6	34.5	34
18	46.62	33	76.1	29	46.99	14	47.9	25	51.20	14	57.4	2	10.60	15	31.1	30
28	46.95	40	73.2	29	47.13	18	45.4	21	51.34	17	57.6	0	10.75	27	28.1	28
Sept. 7	47.35	47	70.3	28	47.31	22	43.3	19	51.51	20	57.6	2	11.02	36	25.3	25
17	47.82	54	67.5	27	47.53	27	41.4	14	51.71	22	57.4	4	11.38	43	22.8	22
27	48.36	59	64.8	24	47.80	30	40.0	9	51.93	26	57.0	7	11.81	55	20.6	16
Okt. 7	48.95	65	62.4	21	48.10	35	39.1	4	52.19	27	56.3	10	12.36	61	19.0	10
17	49.60	69	60.3	17	48.45	36	38.7	3	52.46	30	55.3	13	12.97	65	18.0	4
27	50.29	72	58.6	14	48.81	38	39.0	8	52.76	32	54.0	15	13.62	69	17.6	2
Nov. 6	51.01	75	57.2	10	49.19	39	39.8	14	53.08	33	52.5	17	14.31	69	17.8	9
16	51.76	74	56.2	5	49.58	39	41.2	20	53.41	33	50.8	19	15.00	68	18.7	16
26	52.50	72	55.7	0	49.97	37	43.2	24	53.74	32	48.9	19	15.68	64	20.3	22
Dez. 6	53.22	69	55.7	5	50.34	35	45.6	29	54.06	32	47.0	20	16.32	58	22.5	27
16	53.91	62	56.2	10	50.69	31	48.5	32	54.38	28	45.0	19	16.90	50	25.2	32
26	54.53	55	57.2	15	51.00	26	51.7	34	54.66	26	43.1	18	17.40	41	28.4	35
36	55.08		58.7		51.26		55.1		54.92		41.3		17.81		31.9	
Mittl. Ort	45.28		79.3		47.66		51.1		50.35		54.6		15.00		31.3	
sec δ, tg δ	2.612		+2.413		1.369		−0.935		1.001		+0.047		2.837		−2.655	

1913	350) 83 Cancri. AR.	Diff.	Dekl. +	Diff.	352) 40 Lyncis. AR.	Diff.	Dekl. +	Diff.	353) κ Argus. AR.	Diff.	Dekl. —	Diff.	354) α Hydrae. AR.	Diff.	Dekl. —	Diff.
	$9^h 14^m$		18° 4′		$9^h 15^m$		34° 45′		$9^h 19^m$		54° 38′		$9^h 23^m$		8° 16′	
Jan. 0	8.81	26	29.9	10	46.99	29	37.2	0	26.21	27	3.5	36	19.62	24	45.2	23
10	9.07	21	28.9	7	47.28	24	37.2	2	26.48	21	7.1	38	19.86	20	47.5	22
20	9.28	16	28.2	4	47.52	18	37.4	6	26.69	13	10.9	38	20.06	15	49.7	20
30	9.44	11	27.8	2	47.70	13	38.0	8	26.82	6	14.7	37	20.21	10	51.7	18
Febr. 9	9.55	6	27.6	0	47.83	6	38.8	10	26.88	2	18.4	36	20.31	5	53.5	16
19	9.61	0	27.6	2	47.89	0	39.8	12	26.86	9	22.0	33	20.36	0	55.1	14
März 1	9.61	4	27.8	3	47.89	4	41.0	12	26.77	15	25.3	31	20.36	3	56.5	11
11	9.57	8	28.1	5	47.85	10	42.2	13	26.62	21	28.4	27	20.33	8	57.6	8
21	9.49	10	28.6	5	47.75	12	43.5	11	26.41	24	31.1	23	20.25	10	58.4	6
31	9.39	13	29.1	6	47.63	15	44.6	10	26.17	28	33.4	19	20.15	12	59.0	3
April 10	9.26	14	29.7	5	47.48	17	45.6	9	25.89	29	35.3	14	20.03	13	59.3	2
20	9.12	13	30.2	5	47.31	17	46.5	7	25.60	31	36.7	8	19.90	14	59.5	1
30	8.99	13	30.7	5	47.14	16	47.2	4	25.29	31	37.5	4	19.76	13	59.4	3
Mai 10	8.86	13	31.2	4	46.98	15	47.6	2	24.98	30	37.9	1	19.63	12	59.1	5
20	8.73	10	31.6	3	46.83	13	47.8	1	24.68	28	37.8	6	19.51	10	58.6	7
30	8.63	8	31.9	2	46.70	10	47.7	2	24.40	27	37.2	11	19.41	9	57.9	8
Juni 9	8.55	5	32.1	1	46.60	7	47.5	5	24.13	23	36.1	15	19.32	7	57.1	9
19	8.50	3	32.2	0	46.53	5	47.0	7	23.90	19	34.6	20	19.25	4	56.2	11
29	8.47	0	32.2	0	46.48	1	46.3	9	23.71	15	32.6	22	19.21	2	55.1	11
Juli 9	8.47	3	32.2	2	46.47	3	45.4	10	23.56	10	30.4	26	19.19	1	54.0	11
19	8.50	5	32.0	2	46.50	6	44.4	12	23.46	6	27.8	27	19.20	3	52.9	12
29	8.55	8	31.8	4	46.56	9	43.2	14	23.40	0	25.1	29	19.23	7	51.7	11
Aug. 8	8.63	13	31.4	6	46.65	14	41.8	16	23.40	7	22.2	32	19.30	10	50.6	11
18	8.76	15	30.8	7	46.79	17	40.2	16	23.47	12	19.0	27	19.40	11	49.5	9
28	8.91	18	30.1	8	46.96	20	38.6	17	23.59	18	16.3	26	19.51	15	48.6	6
Sept. 7	9.09	20	29.3	9	47.16	23	36.9	18	23.77	25	13.7	22	19.66	19	48.0	3
17	9.29	23	28.4	12	47.39	26	35.1	18	24.02	30	11.5	19	19.85	21	47.7	1
27	9.52	27	27.2	13	47.65	30	33.3	19	24.32	36	9.6	13	20.06	24	47.6	3
Okt. 7	9.79	29	25.9	14	47.95	32	31.4	18	24.68	38	8.3	8	20.30	27	47.9	6
17	10.08	31	24.5	16	48.27	35	29.6	18	25.06	43	7.5	2	20.57	29	48.5	10
27	10.39	32	22.9	16	48.62	38	27.8	17	25.49	45	7.3	4	20.86	31	49.5	14
Nov. 6	10.71	35	21.3	17	49.00	39	26.1	16	25.94	47	7.7	11	21.17	33	50.9	16
16	11.06	35	19.6	16	49.39	39	24.5	14	26.41	47	8.8	17	21.50	33	52.5	20
26	11.41	34	18.0	16	49.78	39	23.1	11	26.88	44	10.5	23	21.83	32	54.5	21
Dez. 6	11.75	33	16.4	15	50.17	37	22.0	9	27.32	42	12.8	28	22.15	32	56.6	23
16	12.08	31	14.9	13	50.54	35	21.1	6	27.74	37	15.6	32	22.47	29	58.9	23
26	12.39	28	13.6	11	50.89	31	20.5	2	28.11	31	18.8	35	22.76	26	61.2	24
36	12.67		12.5		51.20		20.3		28.42		22.3		23.02		63.6	
Mittl. Ort	7.69		29.1		45.55		39.7		25.10		19.6		18.76		51.6	
sec δ, tg δ	1.052		+0.326		1.217		+0.694		1.728		−1.409		1.010		−0.146	

1913	355) *h* Ursae maj. AR.	Diff.	Dekl. +	Diff.	357) *d* Ursae maj. AR.	Diff.	Dekl. +	Diff.	358) ϑ Ursae maj. AR.	Diff.	Dekl. +	Diff.	359) ψ Argus. AR.	Diff.	Dekl. −	Diff.
	$9^h 24^m$		63° 26′		$9^h 26^m$		70° 12′		$9^h 27^m$		52° 4′		$9^h 27^m$		40° 4′	
Jan. 0	44.02	48	27.9	13	52.68	60	41.3	16	4.85	37	22.1	8	17.17	26	53.7	34
10	44.50	39	29.2	17	53.28	49	42.9	19	5.22	31	22.9	11	17.43	20	57.1	35
20	44.89	30	30.9	21	53.77	38	44.8	23	5.53	24	24.0	15	17.63	14	60.6	34
30	45.19	20	33.0	23	54.15	23	47.1	26	5.77	16	25.5	17	17.77	9	64.0	33
Febr. 9	45.39	9	35.3	24	54.38	10	49.7	27	5.93	8	27.2	19	17.86	2	67.3	32
19	45.48	2	37.7	24	54.48	3	52.4	27	6.01	1	29.1	20	17.88	3	70.5	29
März 1	45.46	11	40.1	25	54.45	16	55.1	26	6.02	6	31.1	20	17.85	8	73.4	27
11	45.35	19	42.6	22	54.29	27	57.7	24	5.96	13	33.1	19	17.77	13	76.1	23
21	45.16	26	44.8	20	54.02	37	60.1	21	5.83	18	35.0	17	17.64	16	78.4	20
31	44.90	32	46.8	16	53.65	43	62.2	17	5.65	21	36.7	15	17.48	18	80.4	14
April 10	44.58	35	48.4	12	53.22	48	63.9	13	5.44	24	38.2	11	17.30	19	81.8	11
20	44.23	36	49.6	7	52.74	51	65.2	7	5.20	24	39.3	8	17.11	21	82.9	6
30	43.87	36	50.3	3	52.23	50	65.9	3	4.96	25	40.1	5	16.90	21	83.5	2
Mai 10	43.51	35	50.6	1	51.73	49	66.2	3	4.71	23	40.6	0	16.69	19	83.7	2
20	43.16	32	50.5	6	51.24	46	65.9	7	4.48	21	40.6	3	16.50	19	83.5	7
30	42.84	27	49.9	11	50.78	39	65.2	13	4.27	18	40.3	7	16.31	16	82.8	10
Juni 9	42.57	22	48.8	14	50.39	33	63.9	16	4.09	14	39.6	11	16.15	15	81.8	15
19	42.35	17	47.4	19	50.06	26	62.3	21	3.95	10	38.5	14	16.00	11	80.3	17
29	42.18	10	45.5	21	49.80	17	60.2	24	3.85	6	37.1	17	15.89	9	78.6	20
Juli 9	42.08	4	43.4	24	49.63	9	57.8	26	3.79	1	35.4	19	15.80	5	76.6	23
19	42.04	3	41.0	26	49.54	0	55.2	29	3.78	4	33.5	21	15.75	1	74.3	24
29	42.07	10	38.4	28	49.54	11	52.3	31	3.82	9	31.4	23	15.74	2	71.9	25
Aug. 8	42.17	19	35.6	32	49.65	21	49.2	34	3.91	14	29.1	27	15.76	7	69.4	27
18	[11] 42.36	24	32.4	30	[12] 49.86	28	45.8	32	[12] 4.05	18	26.4	25	[12] 15.83	11	66.7	23
28	42.60	30	29.4	29	50.14	37	42.6	32	4.23	23	23.9	26	15.94	15	64.4	21
Sept. 7	42.90	36	26.5	29	50.51	46	39.4	31	4.46	28	21.3	25	16.09	20	62.3	18
17	43.26	43	23.6	28	50.97	54	36.3	29	4.74	32	18.8	25	16.29	24	60.5	15
27	43.69	48	20.8	26	51.51	61	33.4	27	5.06	36	16.3	25	16.53	27	59.0	9
Okt. 7	44.17	54	18.2	24	52.12	68	30.7	25	5.42	40	13.8	23	16.80	32	58.1	5
17	44.71	58	15.8	21	52.80	74	28.2	21	5.82	44	11.5	21	17.12	34	57.6	1
27	45.29	61	13.7	17	53.54	78	26.1	17	6.26	46	9.4	18	17.46	37	57.7	7
Nov. 6	45.90	64	12.0	14	54.32	81	24.4	13	6.72	49	7.6	15	17.83	38	58.4	13
16	46.54	65	10.6	9	55.13	82	23.1	7	7.21	49	6.1	12	18.21	39	59.7	18
26	47.19	65	9.7	4	55.95	82	22.4	3	7.70	49	4.9	8	18.60	37	61.5	23
Dez. 6	47.84	62	9.3	1	56.77	78	22.1	3	8.19	48	4.1	4	18.97	36	63.8	27
16	48.46	57	9.4	6	57.55	73	22.4	8	8.67	44	3.7	1	19.33	32	66.5	30
26	49.03	51	10.0	11	58.28	65	23.2	13	9.11	41	3.8	5	19.65	28	69.5	33
36	49.54		11.1		58.93		24.5		9.52		4.3		19.93		72.8	
Mittl. Ort	41.04		34.8		48.67		48.9		2.78		28.0		16.32		67.4	
sec δ, tg δ	2.237		+2.001		2.954		+2.780		1.627		+1.283		1.307		−0.842	

1913	360) 10 Leon. min.				366) ϑ Antliae.				367) ε Leonis.				368) υ Ursae maj.			
	AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	9h 28m		36° 46′		9h 40m		27° 22′		9h 40m		24° 10′		9h 44m		59° 26′	
Jan. 0	55.35	31	60.2	0	20.10	25	3.8	30	56.08	29	29.3	8	51.34	46	46.6	9
10	55.66	26	60.2	3	20.35	21	6.8	30	56.37	24	28.5	4	51.80	39	47.5	14
20	55.92	20	60.5	6	20.56	16	9.8	30	56.61	20	28.1	2	52.19	30	48.9	18
30	56.12	14	61.1	9	20.72	11	12.8	29	56.81	14	27.9	1	52.49	21	50.7	20
Febr. 9	56.26	8	62.0	11	20.83	6	15.7	26	56.95	8	28.0	3	52.70	13	52.7	22
19	56.34	2	63.1	13	20.89	0	18.3	24	57.03	4	28.3	6	52.83	3	54.9	24
März 1	56.36	3	64.4	14	20.89	4	20.7	22	57.07	2	28.9	7	52.86	6	57.3	23
11	56.33	8	65.8	13	20.85	8	22.9	18	57.05	6	29.6	8	52.80	14	59.6	23
21	56.25	12	67.1	13	20.77	11	24.7	15	56.99	9	30.4	9	52.66	20	61.9	20
31	56.13	15	68.4	11	20.66	13	26.2	12	56.90	11	31.3	8	52.46	24	63.9	18
April 10	55.98	16	69.5	10	20.53	15	27.4	8	56.79	13	32.1	8	52.22	29	65.7	13
20	55.82	17	70.5	8	20.38	16	28.2	4	56.66	14	32.9	7	51.93	30	67.0	10
30	55.65	17	71.3	5	20.22	15	28.6	1	56.52	14	33.6	6	51.63	31	68.0	6
Mai 10	55.48	16	71.8	3	20.07	16	28.7	3	56.38	13	34.2	4	51.32	30	68.6	1
20	55.32	14	72.1	0	19.91	14	28.4	6	56.25	11	34.6	3	51.02	28	68.7	3
30	55.18	11	72.1	2	19.77	12	27.8	9	56.14	10	34.9	2	50.74	25	68.4	7
Juni 9	55.07	9	71.9	5	19.65	11	26.9	12	56.04	7	35.1	1	50.49	21	67.7	12
19	54.98	5	71.4	8	19.54	8	25.7	15	55.97	5	35.0	1	50.28	16	66.5	15
29	54.93	2	70.6	9	19.46	6	24.2	16	55.92	2	34.9	3	50.12	11	65.0	19
Juli 9	54.91	1	69.7	11	19.40	3	22.6	19	55.90	0	34.6	5	50.01	6	63.1	22
19	54.92	4	68.6	14	19.37	0	20.7	19	55.90	3	34.1	6	49.95	0	60.9	24
29	54.96	8	67.2	14	19.37	3	18.8	20	55.93	6	33.5	8	49.95	5	58.5	26
Aug. 8	55.04	12	65.8	18	19.40	6	16.8	21	55.99	10	32.7	10	50.00	12	55.9	31
18	[12] 55.16	15	64.0	18	[15] 19.46	10	14.7	17	[15] 56.09	12	31.7	11	[16] 50.12	18	52.8	29
28	55.31	19	62.2	19	19.56	14	13.0	16	56.21	16	30.6	13	50.30	23	49.9	29
Sept. 7	55.50	23	60.3	19	19.70	16	11.4	13	56.37	18	29.3	14	50.53	28	47.0	29
17	55.73	25	58.4	20	19.86	21	10.1	10	56.55	22	27.9	15	50.81	35	44.1	29
27	55.98	29	56.4	21	20.07	24	9.1	6	56.77	25	26.4	16	51.16	40	41.2	27
Okt. 7	56.27	32	54.3	20	20.31	28	8.5	1	57.02	28	24.8	18	51.56	45	38.5	26
17	56.59	36	52.3	19	20.59	30	8.4	4	57.30	31	23.0	18	52.01	50	35.9	24
27	56.95	37	50.4	18	20.89	33	8.8	9	57.61	34	21.2	19	52.51	53	33.5	20
Nov. 6	57.32	40	48.6	17	21.22	35	9.7	14	57.95	35	19.3	18	53.04	56	31.5	17
16	57.72	40	46.9	15	21.57	35	11.1	18	58.30	36	17.5	18	53.60	57	29.8	13
26	58.12	40	45.4	12	21.92	35	12.9	23	58.66	36	15.7	16	54.17	58	28.5	8
Dez. 6	58.52	38	44.2	9	22.27	34	15.2	25	59.02	36	14.1	14	54.75	56	27.7	3
16	58.90	37	43.3	6	22.61	31	17.7	28	59.38	33	12.7	12	55.31	54	27.4	2
26	59.27	33	42.7	3	22.92	28	20.5	30	59.71	31	11.5	10	55.85	48	27.6	6
36	59.60		42.4		23.20		23.5		60.02		10.5		56.33		28.2	
Mittl. Ort	53.90		63.9		19.36		14.7		54.96		31.2		48.87		54.8	
sec δ, tg δ	1.249		+0.748		1.126		−0.518		1.096		+0.449		1.967		+1.694	

1913	369) υ Argus. AR.		Dekl. −		370) 6 Sextantis. AR.		Dekl. −		372) Gr. 1586. AR.		Dekl. +		378) π Leonis. AR.		Dekl. +	
	$9^h\ 44^m$		64° 39′		$9^h\ 46^m$		3° 50′		$9^h\ 50^m$		73° 17′		$9^h\ 55^m$		8° 27′	
Jan. 0	$56^s.79$	38	47.″1	35	$51^s.81$	26	1.″9	22	$42^s.43$	74	28.″1	14	$37^s.90$	27	44.″7	16
10	57.17	29	50.6	38	52.07	22	4.1	20	43.17	63	29.5	19	38.17	24	43.1	14
20	57.46	19	54.4	39	52.29	17	6.1	18	43.80	49	31.4	23	38.41	19	41.7	12
30	57.65	10	58.3	39	52.46	13	7.9	17	44.29	33	33.7	25	38.60	14	40.5	9
Febr. 9	57.75	0	62.2	39	52.59	8	9.6	14	44.62	19	36.2	28	38.74	10	39.6	7
19	57.75	8	66.1	37	52.67	3	11.0	11	44.81	2	39.0	28	38.84	4	38.9	4
März 1	57.67	17	69.8	35	52.70	2	12.1	9	44.83	13	41.8	28	38.88	0	38.5	2
11	57.50	25	73.3	31	52.68	5	13.0	7	44.70	26	44.6	26	38.88	4	38.3	0
21	57.25	31	76.4	28	52.63	8	13.7	4	44.44	39	47.2	23	38.84	7	38.3	2
31	56.94	36	79.2	24	52.55	10	14.1	2	44.05	47	49.5	19	38.77	9	38.5	3
April 10	56.58	39	81.6	19	52.45	11	14.3	1	43.58	55	51.4	16	38.68	11	38.8	4
20	56.19	42	83.5	15	52.34	12	14.4	2	43.03	59	53.0	10	38.57	12	39.2	4
30	55.77	43	85.0	9	52.22	13	14.2	3	42.44	61	54.0	5	38.45	12	39.6	5
Mai 10	55.34	44	85.9	4	52.09	11	13.9	4	41.83	61	54.5	0	38.33	12	40.1	5
20	54.90	42	86.3	1	51.98	11	13.5	6	41.22	57	54.5	6	38.21	10	40.6	5
30	54.48	41	86.2	7	51.87	9	12.9	7	40.65	53	53.9	10	38.11	9	41.1	5
Juni 9	54.07	38	85.5	12	51.78	7	12.2	7	40.12	47	52.9	16	38.02	7	41.6	4
19	53.69	33	84.3	16	51.71	5	11.5	9	39.65	37	51.3	19	37.95	6	42.0	5
29	53.36	28	82.7	20	51.66	3	10.6	9	39.28	29	49.4	23	37.89	3	42.5	3
Juli 9	53.08	23	80.7	24	51.63	1	9.7	8	38.99	20	47.1	27	37.86	1	42.8	3
19	52.85	16	78.3	27	51.62	2	8.9	9	38.79	9	44.4	29	37.85	2	43.1	3
29	52.69	9	75.6	29	51.64	4	8.0	8	38.70	1	41.5	32	37.87	4	43.4	1
Aug. 8	52.60	1	72.7	33	51.68	8	7.2	8	38.71	12	38.3	33	37.91	7	43.5	0
18	52.59	8	69.4	29	51.76	10	6.4	5	38.83	26	35.0	37	37.98	10	43.5	2
28	52.67	16	66.5	29	51.86	13	5.9	4	39.09	34	31.3	34	38.08	13	43.3	4
Sept. 7	52.83	25	63.6	26	51.99	16	5.5	1	39.43	45	27.9	33	38.21	16	42.9	6
17	53.08	34	61.0	23	52.15	19	5.4	2	39.88	55	24.6	32	38.37	19	42.3	8
27	53.42	41	58.7	18	52.34	23	5.6	5	40.43	63	21.4	30	38.56	22	41.5	11
Okt. 7	53.83	48	56.9	12	52.57	25	6.1	8	41.06	72	18.4	27	38.78	25	40.4	12
17	54.31	53	55.7	7	52.82	28	6.9	11	41.78	81	15.7	25	39.03	28	39.2	15
27	54.84	57	55.0	1	53.10	30	8.0	14	42.59	86	13.2	20	39.31	30	37.7	17
Nov. 6	55.41	60	54.9	6	53.40	33	9.4	17	43.45	91	11.2	16	39.61	33	36.0	18
16	56.01	60	55.5	13	53.73	33	11.1	19	44.36	94	9.6	11	39.94	34	34.2	20
26	56.61	58	56.8	18	54.06	33	13.0	21	45.30	94	8.5	5	40.28	34	32.2	19
Dez. 6	57.19	55	58.6	25	54.39	33	15.1	22	46.24	92	8.0	0	40.62	33	30.3	20
16	57.74	50	61.1	29	54.72	30	17.3	22	47.16	87	8.0	6	40.95	32	28.3	18
26	58.24	42	64.0	34	55.02	28	19.5	22	48.03	79	8.6	12	41.27	29	26.5	18
36	58.66		67.4		55.30		21.7		48.82		9.8		41.56		24.7	
Mittl. Ort	55.67		65.4		51.03		6.8		37.88		38.0		37.05		43.4	
sec δ, tg δ	2.338		−2.113		1.002		−0.067		3.480		+3.333		1.011		+0.149	

1913	379) η Leonis. AR.		Dekl. +		380) α Leonis. AR.		Dekl. +		381) λ Hydrae. AR.		Dekl. —		382) q Velorum. AR.		Dekl. —	
	$10^h\ 2^m$		17° 10′		$10^h\ 3^m$		12° 23′		$10^h\ 6^m$		11° 55′		$10^h\ 11^m$		41° 41′	
Jan. 0	36.42	29	73.0	12	45.29	28	33.9	15	21.45	27	18.6	25	5.40	31	11.5	33
10	36.71	26	71.8	10	45.57	25	32.4	12	21.72	24	21.1	24	5.71	26	14.8	33
20	36.97	20	70.8	7	45.82	20	31.2	9	21.96	19	23.5	23	5.97	20	18.1	35
30	37.17	16	70.1	4	46.02	15	30.3	7	22.15	14	25.8	21	6.17	15	21.6	34
Febr. 9	37.33	10	69.7	1	46.17	11	29.6	4	22.29	9	27.9	19	6.32	8	25.0	33
19	37.43	6	69.6	1	46.28	5	29.2	2	22.38	5	29.8	17	6.40	3	28.3	32
März 1	37.49	1	69.7	3	46.33	1	29.0	0	22.43	0	31.5	14	6.43	2	31.5	29
11	37.50	4	70.0	5	46.34	3	29.0	2	22.43	3	32.9	11	6.41	8	34.4	26
21	37.46	6	70.5	6	46.31	7	29.2	4	22.40	7	34.0	9	6.33	11	37.0	23
31	37.40	10	71.1	7	46.24	9	29.6	4	22.33	10	34.9	7	6.22	14	39.3	19
April 10	37.30	11	71.8	6	46.15	10	30.0	5	22.23	11	35.6	3	6.08	17	41.2	15
20	37.19	12	72.4	7	46.05	12	30.5	6	22.12	12	35.9	1	5.91	18	42.7	11
30	37.07	13	73.1	6	45.93	12	31.1	6	22.00	12	36.0	1	5.73	19	43.8	7
Mai 10	36.94	12	73.7	6	45.81	12	31.7	5	21.88	12	35.9	3	5.54	20	44.5	2
20	36.82	10	74.3	4	45.69	11	32.2	5	21.76	11	35.6	4	5.34	19	44.7	1
30	36.72	10	74.7	4	45.58	9	32.7	4	21.65	10	35.2	7	5.15	18	44.6	7
Juni 9	36.62	8	75.1	2	45.49	8	33.1	4	21.55	9	34.5	9	4.97	16	43.9	10
19	36.54	6	75.3	2	45.41	5	33.5	3	21.46	7	33.6	10	4.81	15	42.9	13
29	36.48	4	75.5	0	45.36	4	33.8	2	21.39	5	32.6	11	4.66	12	41.6	17
Juli 9	36.44	1	75.5	1	45.32	2	34.0	1	21.34	3	31.5	11	4.54	9	39.9	20
19	36.43	1	75.4	2	45.30	1	34.1	0	21.31	0	30.4	12	4.45	6	37.9	22
29	36.44	4	75.2	4	45.31	4	34.1	1	21.31	1	29.2	12	4.39	3	35.7	23
Aug. 8	36.48	6	74.8	6	45.35	6	34.0	2	21.32	5	28.0	11	4.36	0	33.4	24
18	36.54	10	74.2	8	45.41	9	33.8	5	21.37	9	26.9	11	4.36	6	31.0	26
28	[21] 36.64	13	73.4	9	[22] 45.50	12	33.3	6	[22] 21.46	11	25.8	8	[21] 4.42	10	28.4	22
Sept. 7	36.77	15	72.5	11	45.62	16	32.7	9	21.57	14	25.0	5	4.52	15	26.2	20
17	36.92	19	71.4	12	45.78	18	31.8	10	21.71	17	24.5	2	4.67	20	24.2	17
27	37.11	23	70.2	15	45.96	22	30.8	13	21.88	21	24.3	0	4.87	24	22.5	13
Okt. 7	37.34	25	68.7	16	46.18	24	29.5	14	22.09	24	24.3	5	5.11	29	21.2	8
17	37.59	29	67.1	18	46.42	28	28.1	16	22.33	28	24.8	8	5.40	33	20.4	3
27	37.88	31	65.3	19	46.70	31	26.5	18	22.61	30	25.6	12	5.73	36	20.1	3
Nov. 6	38.19	33	63.4	19	47.01	32	24.7	19	22.91	32	26.8	15	6.09	38	20.4	8
16	38.52	35	61.5	20	47.33	34	22.8	20	23.23	34	28.3	19	6.47	40	21.2	14
26	38.87	35	59.5	19	47.67	35	20.8	19	23.57	34	30.2	21	6.87	40	22.6	20
Dez. 6	39.22	35	57.6	17	48.02	34	18.9	19	23.91	33	32.3	23	7.27	38	24.6	24
16	39.57	33	55.9	16	48.36	32	17.0	18	24.24	31	34.6	25	7.65	37	27.0	28
26	39.90	30	54.3	14	48.68	31	15.2	16	24.55	29	37.1	25	8.02	33	29.8	31
36	40.20		52.9		48.99		13.6		24.84		39.6		8.35		32.9	
Mittl. Ort	35.50		74.3		44.43		34.0		20.81		25.2		4.86		25.9	
sec δ, tg δ	1.047		+0.309		1.024		+0.220		1.022		—0.211		1.339		—0.891	

1913	384) ζ Leonis. AR.		384) ζ Leonis. Dekl. +		383) λ Ursae maj. AR.		383) λ Ursae maj. Dekl. +		386) μ Ursae maj. AR.		386) μ Ursae maj. Dekl. +		387) 30 H. Urs. maj. AR.		387) 30 H. Urs. maj. Dekl. +	
	$10^h\ 11^m$		23° 50′		$10^h\ 11^m$		43° 20′		$10^h\ 17^m$		41° 55′		$10^h\ 17^m$		65° 59′	
Jan. 0	52.25	31	61.1	10	52.79	37	49.3	1	10.48	38	66.7	1	55.25	60	73.1	8
10	52.56	27	60.1	6	53.16	32	49.2	4	10.86	31	66.6	2	55.85	51	73.9	13
20	52.83	22	59.5	3	53.48	26	49.6	7	11.17	26	66.8	7	56.36	43	75.2	19
30	53.05	18	59.2	0	53.74	21	50.3	11	11.43	21	67.5	10	56.79	32	77.1	21
Febr. 9	53.23	11	59.2	2	53.95	14	51.4	14	11.64	14	68.5	13	57.11	20	79.2	24
19	53.34	7	59.4	6	54.09	7	52.8	17	11.78	8	69.8	15	57.31	10	81.6	26
März 1	53.41	2	60.0	7	54.16	1	54.5	17	11.86	2	71.3	17	57.41	1	84.2	27
11	53.43	3	60.7	8	54.17	4	56.2	18	11.88	4	73.0	17	57.40	11	86.9	26
21	53.40	6	61.5	9	54.13	10	58.0	17	11.84	8	74.7	18	57.29	21	89.5	24
31	53.34	10	62.4	10	54.03	13	59.7	16	11.76	12	76.5	16	57.08	27	91.9	21
April 10	53.24	11	63.4	9	53.90	16	61.3	15	11.64	16	78.1	14	56.81	33	94.0	18
20	53.13	12	64.3	8	53.74	18	62.8	11	11.48	17	79.5	12	56.48	38	95.8	13
30	53.01	13	65.1	8	53.56	18	63.9	9	11.31	17	80.7	9	56.10	39	97.1	9
Mai 10	52.88	13	65.9	6	53.38	19	64.8	6	11.14	18	81.6	6	55.71	40	98.0	5
20	52.75	12	66.5	4	53.19	17	65.4	2	10.96	17	82.2	3	55.31	39	98.5	1
30	52.63	10	66.9	3	53.02	16	65.6	1	10.79	15	82.5	0	54.92	37	98.4	5
Juni 9	52.53	9	67.2	1	52.86	13	65.5	4	10.64	13	82.5	3	54.55	33	97.9	10
19	52.44	7	67.3	1	52.73	11	65.1	8	10.51	11	82.2	7	54.22	28	96.9	15
29	52.37	5	67.2	2	52.62	8	64.3	10	10.40	8	81.5	10	53.94	23	95.4	19
Juli 9	52.32	2	67.0	4	52.54	4	63.3	14	10.32	5	80.5	12	53.71	16	93.5	23
19	52.30	0	66.6	6	52.50	1	61.9	16	10.27	1	79.3	15	53.55	11	91.2	26
29	52.30	3	66.0	8	52.49	2	60.3	18	10.26	1	77.8	18	53.44	3	88.6	28
Aug. 8	52.33	5	65.2	9	52.51	5	58.5	21	10.27	5	76.0	19	53.41	3	85.8	30
18	52.38	10	64.3	13	52.56	11	56.4	24	10.32	10	74.1	24	53.44	13	82.8	35
28	52.48	12	63.0	13	52.67	14	54.0	23	10.42	13	71.7	23	53.57	19	79.3	33
Sept. 7	52.60	15	61.7	15	52.81	18	51.7	25	10.55	17	69.4	24	53.76	26	76.0	33
17	52.75	19	60.2	16	52.99	23	49.2	25	10.72	21	67.0	25	54.02	34	72.7	33
27	52.94	22	58.6	18	53.22	26	46.7	26	10.93	26	64.5	25	54.36	41	69.4	32
Okt. 7	53.16	26	56.8	19	53.48	30	44.1	25	11.19	29	62.0	26	54.77	48	66.2	30
17	53.42	29	54.9	20	53.78	35	41.6	24	11.48	33	59.4	24	55.25	54	63.2	27
27	53.71	31	52.9	21	54.13	38	39.2	23	11.81	37	57.0	24	55.79	60	60.5	24
Nov. 6	54.02	34	50.8	20	54.51	40	36.9	21	12.18	40	54.6	21	56.39	65	58.1	21
16	54.36	36	48.8	20	54.91	43	34.8	18	12.58	41	52.5	19	57.04	68	56.0	16
26	54.72	36	46.8	18	55.34	43	33.0	16	12.99	43	50.6	16	57.72	69	54.4	11
Dez. 6	55.08	37	45.0	17	55.77	43	31.4	11	13.42	42	49.0	13	58.41	68	53.3	6
16	55.45	34	43.3	14	56.20	42	30.3	8	13.84	41	47.7	8	59.09	67	52.7	0
26	55.79	33	41.9	12	56.62	38	29.5	3	14.25	39	46.9	4	59.76	62	52.7	5
36	56.12		40.7		57.00		29.2		14.64		46.5		60.38		53.2	
Mittl. Ort	51.27		64.6		51.33		57.1		9.09		74.6		52.34		84.7	
sec δ, tg δ	1.093		+0.442		1.375		+0.944		1.344		+0.898		2.459		+2.247	

1913	389) μ Hydrae.				391) *l* Carinae.				390) 31 Leon. min.				392) Lac. α Antliae.			
	AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. −	
	$10^h\ 21^m$		16° 23′		$10^h\ 22^m$		73° 34′		$10^h\ 22^m$		37° 8′		$10^h\ 23^m$		30° 37′	
Jan. 0	53.48	28	23.2	26	41.07	63	58.7	32	52.65	35	65.0	5	10.62	29	16.7	30
10	53.76	25	25.8	26	41.70	50	61.9	35	53.00	31	64.5	0	10.91	26	19.7	31
20	54.01	20	28.4	25	42.20	38	65.4	38	53.31	26	64.5	3	11.17	21	22.8	31
30	54.21	16	30.9	24	42.58	24	69.2	39	53.57	20	64.8	7	11.38	16	25.9	30
Febr. 9	54.37	11	33.3	21	42.82	11	73.1	40	53.77	15	65.5	11	11.54	11	28.9	28
19	54.48	6	35.4	20	42.93	3	77.1	39	53.92	8	66.6	13	11.65	5	31.7	27
März 1	54.54	2	37.4	17	42.90	18	81.0	38	54.00	3	67.9	14	11.70	1	34.4	25
11	54.56	3	39.1	14	42.72	25	84.8	36	54.03	3	69.3	15	11.71	4	36.9	21
21	54.53	5	40.5	11	42.47	37	88.4	33	54.00	7	70.8	16	11.67	7	39.0	19
31	54.48	9	41.6	9	42.10	48	91.7	30	53.93	10	72.4	14	11.60	10	40.9	15
April 10	54.39	10	42.5	6	41.62	53	94.7	26	53.83	13	73.8	14	11.50	13	42.4	12
20	54.29	11	43.1	3	41.09	60	97.3	21	53.70	15	75.2	11	11.37	13	43.6	8
30	54.18	13	43.4	1	40.49	64	99.4	16	53.55	16	76.3	10	11.24	15	44.4	4
Mai 10	54.05	12	43.5	2	39.85	67	101.0	11	53.39	16	77.3	7	11.09	15	44.8	2
20	53.93	11	43.3	4	39.18	68	102.1	6	53.23	15	78.0	4	10.94	15	45.0	2
30	53.82	11	42.9	7	38.50	67	102.7	0	53.08	14	78.4	1	10.79	13	44.8	6
Juni 9	53.71	10	42.2	8	37.83	65	102.7	5	52.94	12	78.5	2	10.66	13	44.2	9
19	53.61	8	41.4	10	37.18	61	102.2	11	52.82	10	78.3	5	10.53	11	43.3	12
29	53.53	6	40.4	11	36.57	56	101.1	15	52.72	7	77.8	7	10.42	9	42.1	15
Juli 9	53.47	5	39.3	13	36.01	48	99.6	20	52.65	5	77.1	11	10.33	7	40.6	16
19	53.42	2	38.0	13	35.53	40	97.6	24	52.60	2	76.0	12	10.26	5	39.0	18
29	53.40	0	36.7	13	35.13	29	95.2	26	52.58	2	74.8	15	10.21	2	37.2	19
Aug. 8	53.40	3	35.4	13	34.84	17	92.6	29	52.60	4	73.3	17	10.19	2	35.3	20
18	53.43	7	34.1	13	34.67	6	89.7	33	52.64	9	71.6	21	10.21	5	33.3	21
28	[27] 53.50	9	32.8	11	[27] 34.61	9	86.4	30	[27] 52.73	12	69.5	21	[27] 10.26	9	31.2	17
Sept. 7	53.59	13	31.7	7	34.70	23	83.4	30	52.85	15	67.4	22	10.35	13	29.5	15
17	53.72	16	31.0	5	34.93	36	80.4	26	53.00	20	65.2	23	10.48	17	28.0	12
27	53.88	20	30.5	2	35.29	49	77.8	23	53.20	23	62.9	24	10.65	20	26.8	9
Okt. 7	54.08	23	30.3	2	35.78	61	75.5	19	53.43	27	60.5	24	10.85	26	25.9	4
17	54.31	27	30.5	6	36.39	71	73.6	13	53.70	31	58.1	24	11.11	29	25.5	1
27	54.58	30	31.1	10	37.10	79	72.3	7	54.01	34	55.7	24	11.40	32	25.6	5
Nov. 6	54.88	32	32.1	14	37.89	84	71.6	1	54.35	38	53.3	22	11.72	35	26.1	10
16	55.20	34	33.5	18	38.73	87	71.5	6	54.73	39	51.1	20	12.07	36	27.1	16
26	55.54	34	35.3	21	39.60	86	72.1	12	55.12	40	49.1	17	12.43	36	28.7	19
Dez. 6	55.88	34	37.4	23	40.46	83	73.3	19	55.52	41	47.4	14	12.79	37	30.6	24
16	56.22	33	39.7	25	41.29	77	75.2	24	55.93	39	46.0	11	13.16	34	33.0	26
26	56.55	30	42.2	26	42.06	68	77.6	30	56.32	36	44.9	7	13.50	32	35.6	29
36	56.85		44.8		42.74		80.6		56.68		44.2		13.82		38.5	
Mittl. Ort	52.95		30.7		40.21		78.8		51.44		72.2		10.15		28.3	
sec δ, tg δ	1.042		−0.294		3.541		−3.397		1.255		+0.758		1.162		−0.592	

1913	393) s Carinae. AR.		393) Dekl. —		394) 36 Ursae maj. AR.		394) Dekl. +		395) 9 H. Draconis. AR.		395) Dekl. +		404) 33 Sextantis. AR.		404) Dekl. —	
	$10^h\ 24^m$		58° 17′		$10^h\ 25^m$		56° 25′		$10^h\ 27^m$		76° 9′		$10^h\ 36^m$		1° 16′	
Jan. 0	41.44	39	23.9	32	6.07	47	26.5	4	48.89	95	28.9	11	59.22	30	59.7	21
10	41.83	33	27.1	36	6.54	41	26.9	9	49.84	83	30.0	16	59.52	26	61.8	20
20	42.16	26	30.7	37	6.95	35	27.8	13	50.67	69	31.6	21	59.78	22	63.8	18
30	42.42	19	34.4	38	7.30	27	29.1	17	51.36	52	33.7	24	60.00	18	65.6	16
Febr. 9	42.61	10	38.2	38	7.57	18	30.8	20	51.88	34	36.1	27	60.18	13	67.2	13
19	42.71	3	42.0	37	7.75	10	32.8	22	52.22	16	38.8	29	60.31	8	68.5	11
März 1	42.74	4	45.7	35	7.85	2	35.0	23	52.38	3	41.7	29	60.39	4	69.6	8
11	42.70	11	49.2	33	7.87	6	37.3	23	52.35	20	44.6	29	60.43	0	70.4	6
21	42.59	17	52.5	29	7.81	12	39.6	23	52.15	36	47.5	26	60.43	4	71.0	4
31	42.42	21	55.4	26	7.69	18	41.9	20	51.79	49	50.1	23	60.39	6	71.4	1
April 10	42.21	25	58.0	22	7.51	22	43.9	18	51.30	60	52.4	19	60.33	9	71.5	0
20	41.96	28	60.2	18	7.29	25	45.7	14	50.70	68	54.3	15	60.24	9	71.5	2
30	41.68	30	62.0	12	7.04	27	47.1	10	50.02	72	55.8	9	60.15	11	71.3	2
Mai 10	41.38	31	63.2	8	6.77	27	48.1	6	49.30	75	56.7	4	60.04	10	71.1	4
20	41.07	31	64.0	3	6.50	26	48.7	2	48.55	74	57.1	1	59.94	11	70.7	5
30	40.76	31	64.3	3	6.24	24	48.9	3	47.81	71	57.0	7	59.83	9	70.2	6
Juni 9	40.45	29	64.0	7	6.00	22	48.6	7	47.10	65	56.3	12	59.74	9	69.6	6
19	40.16	27	63.3	12	5.78	19	47.9	11	46.45	59	55.1	17	59.65	7	69.0	7
29	39.89	24	62.1	16	5.59	15	46.8	15	45.86	48	53.4	21	59.58	6	68.3	7
Juli 9	39.65	21	60.5	21	5.44	11	45.3	18	45.38	39	51.3	26	59.52	4	67.6	7
19	39.44	16	58.4	23	5.33	6	43.5	21	44.99	28	48.7	28	59.48	2	66.9	6
29	39.28	11	56.1	26	5.27	2	41.4	25	44.71	17	45.9	31	59.46	0	66.3	6
Aug. 8	39.17	5	53.5	27	5.25	3	38.9	26	44.54	3	42.8	34	59.46	2	65.7	4
18	39.12	1	50.8	31	5.28	9	36.3	31	44.51	9	39.4	35	59.48	5	65.3	4
28	27 39.13	8	47.7	27	27 5.37	14	33.2	30	28 44.60	24	35.9	39	31 59.53	9	64.9	1
Sept. 7	39.21	16	45.0	26	5.51	20	30.2	30	44.84	36	32.0	36	59.62	11	64.8	1
17	39.37	22	42.4	23	5.71	25	27.2	31	45.20	49	28.4	35	59.73	15	64.9	3
27	39.59	30	40.1	20	5.96	31	24.1	30	45.69	61	24.9	34	59.88	18	65.2	6
Okt. 7	39.89	36	38.1	15	6.27	36	21.1	29	46.30	74	21.5	32	60.06	22	65.8	9
17	40.25	41	36.6	9	6.63	41	18.2	28	47.04	83	18.3	28	60.28	25	66.7	12
27	40.66	47	35.7	4	7.04	45	15.4	25	47.87	93	15.5	25	60.53	29	67.9	15
Nov. 6	41.13	50	35.3	3	7.49	49	12.9	22	48.80	101	13.0	21	60.82	30	69.4	17
16	41.63	52	35.6	9	7.98	52	10.7	18	49.81	106	10.9	16	61.12	33	71.1	20
26	42.15	52	36.5	15	8.50	54	8.9	15	50.87	109	9.3	10	61.45	34	73.1	21
Dez. 6	42.67	51	38.0	21	9.04	53	7.4	9	51.96	109	8.3	4	61.79	34	75.2	22
16	43.18	47	40.1	27	9.57	52	6.5	5	53.05	105	7.9	2	62.13	33	77.4	22
26	43.65	43	42.8	30	10.09	49	6.0	1	54.10	98	8.1	7	62.46	31	79.6	21
36	44.08		45.8		10.58		6.1		55.08		8.8		62.77		81.7	
Mittl. Ort	40.94		41.8		4.08		37.5		43.91		42.0		58.67		62.4	
sec δ, tg δ	1.903		—1.619		1.808		+1.507		4.181		+4.060		1.000		—0.022	

1913	406) ϑ Argus. AR.		Dekl. −		407) 42 Leon. min. AR.		Dekl. +		408) μ Argus. AR.		Dekl. −		409) l Leonis. AR.		Dekl. +	
	$10^h\,39^m$		$63°\,55'$		$10^h\,41^m$		$31°\,7'$		$10^h\,43^m$		$48°\,57'$		$10^h\,44^m$		$10°\,59'$	
Jan. 0	$51^s.38$	47	$59''.2$	31	$2^s.84$	35	$80''.2$	9	$1^s.69$	37	$21''.1$	31	$41^s.78$	32	$79''.4$	17
10	51.85	41	62.3	34	3.19	30	79.3	5	2.06	32	24.2	34	42.10	27	77.7	14
20	52.26	33	65.7	37	3.49	27	78.8	0	2.38	26	27.6	35	42.37	24	76.3	12
30	52.59	23	69.4	39	3.76	21	78.8	2	2.64	20	31.1	36	42.61	19	75.1	9
Febr. 9	52.82	14	73.3	39	3.97	15	79.0	7	2.84	14	34.7	36	42.80	14	74.2	6
19	52.96	6	77.2	38	4.12	10	79.7	9	2.98	7	38.3	34	42.94	10	73.6	3
März 1	53.02	3	81.0	37	4.22	5	80.6	11	3.05	1	41.7	33	43.04	5	73.3	1
11	52.99	11	84.7	35	4.27	0	81.7	13	3.06	4	45.0	30	43.09	0	73.2	2
21	52.88	18	88.2	32	4.27	4	83.0	13	3.02	9	48.0	28	43.09	3	73.4	3
31	52.70	23	91.4	29	4.23	8	84.3	13	2.93	13	50.8	24	43.06	5	73.7	5
April 10	52.47	29	94.3	25	4.15	10	85.6	14	2.80	16	53.2	21	43.01	8	74.2	5
20	52.18	33	96.8	21	4.05	13	87.0	11	2.64	19	55.3	16	42.93	10	74.7	6
30	51.85	35	98.9	16	3.92	13	88.1	10	2.45	20	56.9	12	42.83	10	75.3	6
Mai 10	51.50	38	100.5	11	3.79	14	89.1	8	2.25	22	58.1	7	42.73	11	75.9	6
20	51.12	38	101.6	6	3.65	13	89.9	6	2.03	22	58.8	3	42.62	10	76.5	6
30	50.74	39	102.2	0	3.52	13	90.5	3	1.81	21	59.1	2	42.52	10	77.1	6
Juni 9	50.35	38	102.2	4	3.39	11	90.8	0	1.60	21	58.9	6	42.42	9	77.7	4
19	49.97	35	101.8	10	3.28	9	90.8	1	1.39	20	58.3	11	42.33	8	78.1	4
29	49.62	33	100.8	14	3.19	8	90.7	5	1.19	18	57.2	14	42.25	6	78.5	3
Juli 9	49.29	29	99.4	19	3.11	5	90.2	6	1.01	15	55.8	18	42.19	4	78.8	2
19	49.00	24	97.5	22	3.06	3	89.6	9	0.86	12	54.0	21	42.15	2	79.0	0
29	48.76	17	95.3	25	3.03	1	88.7	12	0.74	9	51.9	23	42.13	1	79.0	1
Aug. 8	48.59	12	92.8	27	3.02	3	87.5	14	0.65	4	49.6	24	42.12	2	78.9	2
18	48.47	4	90.1	29	3.05	5	86.1	15	0.61	0	47.2	25	42.14	5	78.7	4
28	48.43	6	87.2	32	3.10	10	84.6	20	0.61	6	44.7	28	42.19	8	78.3	6
Sept. 7	48.49	14	84.0	27	3.20	12	82.6	19	0.67	12	41.9	23	42.27	12	77.7	8
17	48.63	23	81.3	26	3.32	17	80.7	21	0.79	17	39.6	21	42.39	14	76.9	11
27	48.86	31	78.7	22	3.49	20	78.6	23	0.96	23	37.5	17	42.53	18	75.8	13
Okt. 7	49.17	39	76.5	18	3.69	24	76.3	23	1.19	28	35.8	13	42.71	22	74.5	15
17	49.56	47	74.7	12	3.93	28	74.0	23	1.47	34	34.5	8	42.93	25	73.0	16
27	50.03	53	73.5	7	4.21	31	71.7	24	1.81	38	33.7	2	43.18	27	71.4	19
Nov. 6	50.56	57	72.8	1	4.52	35	69.3	23	2.19	41	33.5	3	43.45	32	69.5	20
16	51.13	59	72.7	6	4.87	36	67.0	22	2.60	44	33.8	9	43.77	33	67.5	21
26	51.72	61	73.3	12	5.23	38	64.8	20	3.04	45	34.7	16	44.10	34	65.4	21
Dez. 6	52.33	59	74.5	19	5.61	38	62.8	17	3.49	44	36.3	20	44.44	35	63.3	21
16	52.92	57	76.4	24	5.99	38	61.1	14	3.93	42	38.3	25	44.79	34	61.2	19
26	53.49	51	78.8	29	6.37	35	59.7	10	4.35	39	40.8	29	45.13	32	59.3	19
36	54.00		81.7		6.72		58.7		4.74		43.7		45.45		57.4	
Mittl. Ort	51.02		78.2		1.87		87.1		1.41		37.2		41.14		80.9	
sec δ, tg δ	2.277		−2.045		1.168		+0.604		1.523		−1.149		1.019		+0.194	

1913	415) *i* Velorum. AR.		415) Dekl. −		416) β Ursae maj. AR.		416) Dekl. +		417) α Ursae maj. AR.		417) Dekl. +		418) χ Leonis. AR.		418) Dekl. +	
	$10^h 56^m$		41° 45′		$10^h 56^m$		56° 50′		$10^h 58^m$		62° 12′		$11^h 0^m$		7° 48′	
	s		″		s		″		s		″		s		″	
Jan. 0	9.79	35	18.4	30	37.77	50	43.1	0	24.28	57	61.1	2	32.35	32	22.6	19
10	10.14	31	21.4	32	38.27	45	43.1	6	24.85	51	61.3	8	32.67	28	20.7	16
20	10.45	27	24.6	33	38.72	39	43.7	11	25.36	44	62.1	12	32.95	24	19.1	14
30	10.72	20	27.9	33	39.11	31	44.8	15	25.80	36	63.3	17	33.19	20	17.7	11
Febr. 9	10.92	15	31.2	34	39.42	24	46.3	18	26.16	27	65.0	21	33.39	16	16.6	9
19	11.07	10	34.6	31	39.66	15	48.1	22	26.43	17	67.1	24	33.55	11	15.7	5
März 1	11.17	4	37.7	31	39.81	7	50.3	24	26.60	8	69.5	26	33.66	6	15.2	3
11	11.21	1	40.8	28	39.88	0	52.7	24	26.68	2	72.1	26	33.72	2	14.9	0
21	11.20	5	43.6	25	39.88	8	55.1	24	26.66	10	74.7	25	33.74	1	14.9	1
31	11.15	8	46.1	22	39.80	14	57.5	23	26.56	17	77.2	24	33.73	4	15.0	3
April 10	11.07	12	48.3	18	39.66	19	59.8	20	26.39	23	79.6	21	33.69	7	15.3	4
20	10.95	14	50.1	15	39.47	22	61.8	17	26.16	28	81.7	18	33.62	8	15.7	6
30	10.81	16	51.6	11	39.25	25	63.5	14	25.88	31	83.5	14	33.54	10	16.3	5
Mai 10	10.65	17	52.7	6	39.00	27	64.9	9	25.57	33	84.9	9	33.44	10	16.8	6
20	10.48	18	53.3	2	38.73	26	65.8	5	25.24	33	85.8	5	33.34	10	17.4	6
30	10.30	17	53.5	1	38.47	26	66.3	1	24.91	32	86.3	0	33.24	10	18.0	5
Juni 9	10.13	17	53.4	5	38.21	25	66.4	4	24.59	31	86.3	5	33.14	9	18.5	6
19	9.96	16	52.9	9	37.96	22	66.0	8	24.28	28	85.8	10	33.05	8	19.1	4
29	9.80	14	52.0	12	37.74	18	65.2	13	24.00	25	84.8	14	32.97	7	19.5	4
Juli 9	9.66	13	50.8	18	37.56	16	63.9	16	23.75	20	83.4	18	32.90	5	19.9	3
19	9.53	10	49.0	18	37.40	11	62.3	20	23.55	15	81.6	22	32.85	4	20.2	2
29	9.43	8	47.2	21	37.29	8	60.3	23	23.40	10	79.4	25	32.81	2	20.4	1
Aug. 8	9.35	4	45.1	22	37.21	3	58.0	26	23.30	5	76.9	28	32.79	0	20.5	0
18	9.31	0	42.9	22	37.18	3	55.4	28	23.25	0	74.1	31	32.79	3	20.5	2
28	9.31	5	40.7	24	37.21	8	52.6	33	23.25	8	71.0	35	32.82	7	20.3	5
Sept. 7	9.36	9	38.3	21	37.29	13	49.3	32	23.33	14	67.5	34	32.89	9	19.8	7
17	9.45	15	36.2	18	37.42	19	46.1	32	23.47	22	64.1	34	32.98	13	19.1	8
27	9.60	20	34.4	15	37.61	25	42.9	33	23.69	28	60.7	34	33.11	16	18.3	12
Okt. 7	9.80	24	32.9	11	37.86	32	39.6	32	23.97	34	57.3	33	33.27	20	17.1	13
17	10.04	29	31.8	6	38.18	37	36.4	30	24.31	42	54.0	31	33.47	24	15.8	16
27	10.33	34	31.2	1	38.55	42	33.4	28	24.73	47	50.9	29	33.71	27	14.2	18
Nov. 6	10.67	37	31.1	4	38.97	46	30.6	26	25.20	53	48.0	26	33.98	30	12.4	19
16	11.04	40	31.5	10	39.43	51	28.0	22	25.73	57	45.4	22	34.28	32	10.5	21
26	11.44	41	32.5	15	39.94	52	25.8	18	26.30	59	43.2	17	34.60	34	8.4	22
Dez. 6	11.85	40	34.0	20	40.46	54	24.0	14	26.89	61	41.5	12	34.94	34	6.2	21
16	12.25	40	36.0	25	41.00	53	22.6	8	27.50	61	40.3	7	35.28	34	4.1	21
26	12.65	37	38.5	28	41.53	51	21.8	2	28.11	58	39.6	1	35.62	32	2.0	19
36	13.02		41.3		42.04		21.6		28.69		39.5		35.94		0.1	
Mittl. Ort	9.60		32.7		36.00		56.3		22.15		75.2		31.82		23.6	
sec δ, tg δ	1.341		−0.893		1.828		+1.531		2.146		+1.899		1.009		+0.137	

1913	420) ψ Ursae maj. AR.	Diff.	Dekl. +	Diff.	421) β Crateris. AR.	Diff.	Dekl. —	Diff.
	11ʰ 4ᵐ		44° 57′		11ʰ 7ᵐ		22° 20′	
Jan. 0	47.85	41	63.0	5	22.88	32	53.8	27
10	48.26	37	62.5	0	23.20	28	56.5	27
20	48.63	33	62.5	4	23.48	25	59.2	27
30	48.96	27	62.9	9	23.73	20	61.9	26
Febr. 9	49.23	21	63.8	13	23.93	16	64.5	25
19	49.44	14	65.1	16	24.09	11	67.0	23
März 1	49.58	8	66.7	19	24.20	7	69.3	21
11	49.66	2	68.6	19	24.27	2	71.4	19
21	49.68	4	70.5	20	24.29	1	73.3	16
31	49.64	8	72.5	20	24.28	5	74.9	13
April 10	49.56	12	74.5	18	24.23	7	76.2	10
20	49.44	15	76.3	16	24.16	9	77.2	7
30	49.29	17	77.9	14	24.07	10	77.9	5
Mai 10	49.12	17	79.3	11	23.97	11	78.4	2
20	48.95	19	80.4	7	23.86	12	78.6	1
30	48.76	18	81.1	3	23.74	11	78.5	4
Juni 9	48.58	16	81.4	1	23.63	11	78.1	6
19	48.42	15	81.3	4	23.52	11	77.5	9
29	48.27	13	80.9	7	23.41	9	76.6	10
Juli 9	48.14	11	80.2	12	23.32	8	75.6	12
19	48.03	8	79.0	14	23.24	6	74.4	13
29	47.95	5	77.6	18	23.18	4	73.1	14
Aug. 8	47.90	2	75.8	20	23.14	2	71.7	14
18	47.88	2	73.8	23	23.12	1	70.3	14
28	47.90	6	71.5	25	23.13	4	68.9	13
Sept. 7	47.96	11	69.0	30	23.17	9	67.6	12
17	48.07	15	66.0	28	23.26	12	66.4	9
27	48.22	20	63.2	29	23.38	16	65.5	6
Okt. 7	48.42	25	60.3	29	23.54	20	64.9	2
17	48.67	29	57.4	29	23.74	25	64.7	2
27	48.96	33	54.5	28	23.99	28	64.9	6
Nov. 6	49.29	38	51.7	26	24.27	31	65.5	11
16	49.67	41	49.1	24	24.58	34	66.6	14
26	50.08	43	46.7	20	24.92	35	68.0	18
Dez. 6	50.51	43	44.7	17	25.27	36	69.8	22
16	50.94	44	43.0	13	25.63	35	72.0	24
26	51.38	42	41.7	7	25.98	33	74.4	25
36	51.80		41.0		26.31		76.9	
Mittl. Ort	46.66		74.6		22.64		62.3	
sec δ, tg δ	1.413		+0.999		1.081		—0.411	

1913	422) δ Leonis. AR.	Diff.	Dekl. +	Diff.	423) θ Leonis. AR.	Diff.	Dekl. +	Diff.
	11ʰ 9ᵐ		20° 59′		11ʰ 9ᵐ		15° 53′	
Jan. 0	29.67	33	56.3	14	41.16	32	74.9	16
10	30.00	31	54.9	11	41.48	30	73.3	13
20	30.31	27	53.8	8	41.78	26	72.0	10
30	30.58	22	53.0	4	42.04	21	71.0	7
Febr. 9	30.80	17	52.6	0	42.25	18	70.3	4
19	30.97	13	52.6	2	42.43	12	69.9	0
März 1	31.10	8	52.8	5	42.55	7	69.9	2
11	31.18	3	53.3	7	42.62	3	70.1	4
21	31.21	1	54.0	9	42.65	0	70.5	6
31	31.20	4	54.9	10	42.65	4	71.1	7
April 10	31.16	7	55.9	10	42.61	6	71.8	8
20	31.09	8	56.9	11	42.55	8	72.6	9
30	31.01	11	58.0	9	42.47	10	73.5	8
Mai 10	30.90	11	58.9	9	42.37	10	74.3	8
20	30.79	11	59.8	7	42.27	11	75.1	7
30	30.68	11	60.5	6	42.16	10	75.8	5
Juni 9	30.57	10	61.1	4	42.06	10	76.3	5
19	30.47	9	61.5	1	41.96	8	76.8	3
29	30.38	8	61.6	1	41.88	8	77.1	2
Juli 9	30.30	6	61.7	2	41.80	6	77.3	0
19	30.24	5	61.5	4	41.74	4	77.3	1
29	30.19	3	61.1	6	41.70	3	77.2	3
Aug. 8	30.16	0	60.5	8	41.67	0	76.9	5
18	30.16	2	59.7	10	41.67	2	76.4	8
28	30.18	5	58.7	12	41.69	5	75.6	9
Sept. 7	30.23	10	57.5	15	41.74	9	74.7	12
17	30.33	12	56.0	17	41.83	12	73.5	14
27	30.45	16	54.3	18	41.95	16	72.1	15
Okt. 7	30.61	20	52.5	20	42.11	19	70.6	18
17	30.81	24	50.5	22	42.30	24	68.8	20
27	31.05	27	48.3	22	42.54	27	66.8	20
Nov. 6	31.32	31	46.1	23	42.81	30	64.8	22
16	31.63	33	43.8	23	43.11	32	62.6	23
26	31.96	36	41.5	22	43.43	35	60.3	22
Dez. 6	32.32	36	39.3	21	43.78	35	58.1	21
16	32.68	35	37.2	19	44.13	35	56.0	20
26	33.03	35	35.3	16	44.48	34	54.0	17
36	33.38		33.7		44.82		52.3	
Mittl. Ort	29.02		61.9		40.58		79.0	
sec δ, tg δ	1.071		+0.384		1.040		+0.285	

1913	425) ν Ursae maj. AR.		Dekl. +		426) δ Crateris. AR.		Dekl. −		427) σ Leonis. AR.		Dekl. +		428) π Centauri. AR.		Dekl. −	
	$11^h 13^m$		$33° 33'$		$11^h 14^m$		$14° 18'$		$11^h 16^m$		$6° 29'$		$11^h 17^m$		$54° 0'$	
Jan. 0	47.84	36	59.6	10	59.63	32	21.7	24	39.50	32	81.3	19	2.03	43	33.9	27
10	48.20	34	58.6	6	59.95	29	24.1	25	39.82	29	79.4	18	2.46	39	36.6	32
20	48.54	30	58.0	2	60.24	25	26.6	24	40.11	25	77.6	15	2.85	33	39.8	34
30	48.84	25	57.8	3	60.49	21	29.0	23	40.36	22	76.1	12	3.18	26	43.2	35
Febr. 9	49.09	19	58.1	6	60.70	16	31.3	21	40.58	17	74.9	9	3.44	20	46.7	37
19	49.28	14	58.7	10	60.86	12	33.4	18	40.75	13	74.0	6	3.64	14	50.4	36
März 1	49.42	8	59.7	12	60.98	7	35.2	16	40.88	8	73.4	4	3.78	7	54.0	35
11	49.50	4	60.9	14	61.05	4	36.8	14	40.96	4	73.0	2	3.85	1	57.5	33
21	49.54	1	62.3	16	61.09	0	38.2	11	41.00	0	72.8	1	3.86	5	60.8	31
31	49.53	5	63.9	16	61.09	3	39.3	9	41.00	3	72.9	3	3.81	10	63.9	28
April 10	49.48	9	65.5	15	61.06	6	40.2	7	40.97	5	73.2	4	3.71	13	66.7	24
20	49.39	10	67.0	14	61.00	7	40.9	3	40.92	8	73.6	5	3.58	18	69.1	21
30	49.29	13	68.4	13	60.93	9	41.2	2	40.84	8	74.1	5	3.40	20	71.2	17
Mai 10	49.16	13	69.7	10	60.84	11	41.4	0	40.76	9	74.6	6	3.20	22	72.9	12
20	49.03	14	70.7	8	60.73	10	41.4	3	40.67	10	75.2	6	2.98	24	74.1	8
30	48.89	13	71.5	6	60.63	10	41.1	4	40.57	10	75.8	6	2.74	24	74.9	3
Juni 9	48.76	13	72.1	2	60.53	10	40.7	6	40.47	9	76.4	6	2.50	25	75.2	2
19	48.63	12	72.3	0	60.43	9	40.1	7	40.38	8	77.0	5	2.25	24	75.0	6
29	48.51	10	72.3	4	60.34	9	39.4	9	40.30	8	77.5	4	2.01	23	74.4	11
Juli 9	48.41	9	71.9	6	60.25	7	38.5	10	40.22	6	77.9	4	1.78	21	73.3	14
19	48.32	6	71.3	9	60.18	6	37.5	10	40.16	5	78.3	2	1.57	18	71.9	19
29	48.26	4	70.4	12	60.12	4	36.5	11	40.11	3	78.5	2	1.39	15	70.0	21
Aug. 8	48.22	1	69.2	14	60.08	1	35.4	11	40.08	1	78.7	1	1.24	10	67.9	24
18	48.21	1	67.8	17	60.07	0	34.3	10	40.07	1	78.8	3	1.14	6	65.5	25
28	48.22	5	66.1	20	60.07	4	33.3	8	40.08	5	78.5	3	1.08	0	63.0	26
Sept. 7	48.27	9	64.1	23	60.11	8	32.5	7	40.13	8	78.2	7	1.08	7	60.4	27
17	[10] 48.36	12	61.8	23	[10] 60.19	11	31.8	5	[11] 40.21	11	77.5	8	[11] 1.15	13	57.7	24
27	48.48	17	59.5	25	60.30	16	31.3	1	40.32	14	76.7	11	1.28	20	55.3	20
Okt. 7	48.65	21	57.0	25	60.46	19	31.2	2	40.46	19	75.6	13	1.48	27	53.3	18
17	48.86	25	54.5	27	60.65	23	31.4	5	40.65	22	74.3	15	1.75	33	51.5	12
27	49.11	30	51.8	26	60.88	26	31.9	9	40.87	26	72.8	18	2.08	38	50.3	8
Nov. 6	49.41	33	49.2	26	61.14	30	32.8	13	41.13	29	71.0	19	2.46	44	49.5	1
16	49.74	35	46.6	24	61.44	32	34.1	16	41.42	32	69.1	21	2.90	46	49.4	4
26	50.09	38	44.2	22	61.76	35	35.7	19	41.74	34	67.0	22	3.36	49	49.8	10
Dez. 6	50.47	39	42.0	19	62.11	34	37.6	22	42.08	34	64.8	22	3.85	49	50.8	16
16	50.86	39	40.1	16	62.45	34	39.8	23	42.42	34	62.6	21	4.34	48	52.4	21
26	51.25	37	38.5	13	62.79	33	42.1	24	42.76	33	60.5	21	4.82	46	54.5	26
36	51.62		37.2		63.12		44.5		43.09		58.4		5.28		57.1	
Mittl. Ort	47.00		68.9		59.39		27.3		39.07		82.6		2.10		50.8	
sec δ, tg δ	1.200		+0.664		1.032		−0.255		1.007		+0.114		1.702		−1.377	

1913	429) Gr. 1771.				433) λ Draconis.				434) ξ Hydrae.				436) λ Centauri.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. −	
	11h 17m		64° 47′		11h 26m		69° 48′		11h 28m		31° 22′		11h 31m		62° 31′	
Jan. 0	43.92 s	62	68.8″	0	17.78 s	75	24.1″	1	43.21 s	35	23.4″	26	45.38 s	54	59.6″	26
10	44.54	57	68.8	7	18.53	69	24.2	7	43.56	32	26.0	29	45.92	48	62.2	30
20	45.11	50	69.5	11	19.22	61	24.9	13	43.88	28	28.9	29	46.40	42	65.2	33
30	45.61	42	70.6	17	19.83	52	26.2	17	44.16	23	31.8	29	46.82	34	68.5	36
Febr. 9	46.03	33	72.3	21	20.35	40	27.9	22	44.39	19	34.7	29	47.16	27	72.1	37
19	46.36	23	74.4	24	20.75	29	30.1	25	44.58	13	37.6	27	47.43	18	75.8	38
März 1	46.59	12	76.8	26	21.04	15	32.6	28	44.71	9	40.3	26	47.61	11	79.6	37
11	46.71	2	79.4	28	21.19	3	35.4	28	44.80	4	42.9	23	47.72	2	83.3	37
21	46.73	8	82.2	26	21.22	8	38.2	28	44.84	1	45.2	21	47.74	4	87.0	34
31	46.65	16	84.8	26	21.14	20	41.0	27	44.85	3	47.3	18	47.70	11	90.4	32
April 10	46.49	23	87.4	23	20.94	29	43.7	25	44.82	6	49.1	16	47.59	16	93.6	28
20	46.26	28	89.7	20	20.65	36	46.2	21	44.76	9	50.7	12	47.43	22	96.4	25
30	45.98	33	91.7	16	20.29	42	48.3	17	44.67	10	51.9	9	47.21	26	98.9	21
Mai 10	45.65	36	93.3	11	19.87	46	50.0	12	44.57	12	52.8	6	46.95	29	101.0	16
20	45.29	37	94.4	7	19.41	48	51.2	7	44.45	12	53.4	2	46.66	31	102.6	12
30	44.92	37	95.1	2	18.93	48	51.9	2	44.33	13	53.6	1	46.35	33	103.8	7
Juni 9	44.55	36	95.3	4	18.45	47	52.1	3	44.20	13	53.5	4	46.02	34	104.5	2
19	44.19	33	94.9	8	17.98	45	51.8	9	44.07	13	53.1	6	45.68	34	104.7	4
29	43.86	31	94.1	13	17.53	41	50.9	14	43.94	12	52.5	10	45.34	34	104.3	8
Juli 9	43.55	26	92.8	17	17.12	37	49.5	18	43.82	11	51.5	12	45.00	31	103.5	13
19	43.29	22	91.1	22	16.75	31	47.7	22	43.71	9	50.3	14	44.69	27	102.2	17
29	43.07	16	88.9	25	16.44	25	45.5	26	43.62	7	48.9	16	44.42	24	100.5	21
Aug. 8	42.91	11	86.4	28	16.19	18	42.9	29	43.55	5	47.3	17	44.18	18	98.4	24
18	42.80	5	83.6	31	16.01	10	40.0	33	43.50	2	45.6	17	44.00	13	96.0	26
28	42.75	3	80.5	33	15.91	1	36.7	34	43.48	1	43.9	17	43.87	5	93.4	27
Sept. 7	42.78	10	77.2	38	15.90	9	33.3	39	43.49	6	42.2	18	43.82	4	90.7	30
17	[11] 42.88	18	73.4	35	[13] 15.99	17	29.4	37	[14] 43.55	10	40.4	13	[15] 43.86	12	87.7	27
27	43.06	25	69.9	35	16.16	27	25.7	37	43.65	15	39.1	11	43.98	20	85.0	24
Okt. 7	43.31	32	66.4	35	16.43	36	22.0	36	43.80	19	38.0	8	44.18	30	82.6	21
17	43.63	41	62.9	33	16.79	45	18.4	34	43.99	24	37.2	3	44.48	38	80.5	17
27	44.04	47	59.6	31	17.24	54	15.0	32	44.23	28	36.9	1	44.86	45	78.8	12
Nov. 6	44.51	54	56.5	28	17.78	62	11.8	29	44.51	32	37.0	6	45.31	51	77.6	4
16	45.05	59	53.7	24	18.40	69	8.9	24	44.83	35	37.6	10	45.82	56	77.0	0
26	45.64	63	51.3	19	19.09	74	6.5	20	45.18	37	38.6	15	46.38	59	77.0	6
Dez. 6	46.27	65	49.4	14	19.83	76	4.5	14	45.55	38	40.1	19	46.97	60	77.6	12
16	46.92	65	48.0	9	20.59	78	3.1	9	45.93	38	42.0	22	47.57	59	78.8	18
26	47.57	63	47.1	3	21.37	75	2.2	2	46.31	35	44.2	26	48.16	56	80.6	24
36	48.20		46.8		22.12		2.0		46.66		46.8		48.72		83.0	
Mittl. Ort	41.78		84.5		15.19		40.8		43.19		34.1		45.73		78.1	
sec δ, tg δ	2.350		+2.126		2.898		+2.720		1.171		−0.610		2.169		−1.925	

1913	437) υ Leonis. AR.	Δ	Dekl. −	Δ	440) 3 Draconis. AR.	Δ	Dekl. +	Δ	441) χ Ursae maj. AR.	Δ	Dekl. +	Δ	444) β Leonis. AR.	Δ	Dekl. +	Δ
	$11^h\ 32^m$		0° 20′		$11^h\ 37^m$		67° 12′		$11^h\ 41^m$		48° 15′		$11^h\ 44^m$		15° 3′	
Jan. 0	29.92	33	35.7	22	39.99	68	78.3	1	28.71	44	28.2	8	37.76	34	25.1	18
10	30.25	30	37.9	20	40.67	64	78.2	5	29.15	42	27.4	2	38.10	31	23.3	15
20	30.55	26	39.9	18	41.31	57	78.7	11	29.57	37	27.2	3	38.41	28	21.8	12
30	30.81	23	41.7	16	41.88	48	79.8	15	29.94	32	27.5	8	38.69	25	20.6	9
Febr. 9	31.04	18	43.3	14	42.36	39	81.3	21	30.26	26	28.3	12	38.94	20	19.7	5
19	31.22	14	44.7	10	42.75	29	83.4	25	30.52	20	29.5	16	39.14	15	19.2	2
März 1	31.36	9	45.7	9	43.04	17	85.9	26	30.72	13	31.1	20	39.29	11	19.0	1
11	31.45	6	46.6	5	43.21	6	88.5	27	30.85	7	33.1	21	39.40	7	19.1	4
21	31.51	1	47.1	3	43.27	4	91.2	28	30.92	1	35.2	22	39.47	3	19.5	6
31	31.52	1	47.4	1	43.23	14	94.0	27	30.93	5	37.4	23	39.50	1	20.1	8
April 10	31.51	4	47.5	0	43.09	23	96.7	25	30.88	9	39.7	21	39.49	3	20.9	8
20	31.47	6	47.5	2	42.86	29	99.2	22	30.79	13	41.8	20	39.46	6	21.7	9
30	31.41	7	47.3	4	42.57	35	101.4	18	30.66	16	43.8	17	39.40	7	22.6	10
Mai 10	31.34	9	46.9	4	42.22	39	103.2	14	30.50	18	45.5	14	39.33	9	23.6	8
20	31.25	9	46.5	5	41.83	41	104.6	8	30.32	19	46.9	11	39.24	10	24.4	8
30	31.16	9	46.0	5	41.42	42	105.4	4	30.13	20	48.0	6	39.14	10	25.2	7
Juni 9	31.07	9	45.5	6	41.00	41	105.8	1	29.93	20	48.6	3	39.04	10	25.9	6
19	30.98	9	44.9	6	40.59	40	105.7	7	29.73	18	48.9	2	38.94	9	26.5	4
29	30.89	8	44.3	6	40.19	38	105.0	11	29.55	17	48.7	6	38.85	9	26.9	3
Juli 9	30.81	7	43.7	5	39.81	33	103.9	16	29.38	16	48.1	9	38.76	8	27.2	2
19	30.74	6	43.2	6	39.48	29	102.3	21	29.22	13	47.2	14	38.68	7	27.4	1
29	30.68	4	42.6	4	39.19	24	100.2	24	29.09	11	45.8	17	38.61	5	27.3	2
Aug. 8	30.64	2	42.2	3	38.95	18	97.8	28	28.98	7	44.1	21	38.56	4	27.1	5
18	30.62	0	41.9	3	38.77	11	95.0	31	28.91	4	42.0	23	38.52	1	26.6	6
28	30.62	2	41.6	0	38.66	4	91.9	33	28.87	1	39.7	26	38.51	1	26.0	9
Sept. 7	30.64	6	41.6	2	38.62	5	88.6	39	28.86	5	37.1	28	38.52	4	25.1	11
17	[15] 30.70	10	41.8	4	[16] 38.67	13	84.7	37	[18] 28.91	10	34.3	34	[18] 38.56	9	24.0	14
27	30.80	13	42.2	6	38.80	22	81.0	37	29.01	15	30.9	31	38.65	12	22.6	16
Okt. 7	30.93	17	42.8	10	39.02	30	77.3	36	29.16	20	27.8	32	38.77	16	21.0	18
17	31.10	21	43.8	12	39.32	38	73.7	35	29.36	25	24.6	32	38.93	20	19.2	20
27	31.31	25	45.0	15	39.70	46	70.2	33	29.61	31	21.4	31	39.13	24	17.2	21
Nov. 6	31.56	28	46.5	17	40.16	54	66.9	29	29.92	35	18.3	30	39.37	28	15.1	23
16	31.84	31	48.2	20	40.70	61	64.0	27	30.27	40	15.3	27	39.65	31	12.8	23
26	32.15	33	50.2	21	41.31	66	61.3	21	30.67	43	12.6	24	39.96	33	10.5	23
Dez. 6	32.48	34	52.3	22	41.97	69	59.2	16	31.10	44	10.2	20	40.29	35	8.2	23
16	32.82	34	54.5	22	42.66	70	57.6	11	31.54	46	8.2	16	40.64	35	5.9	21
26	33.16	34	56.7	22	43.36	69	56.5	5	32.00	45	6.6	11	40.99	34	3.8	20
36	33.50		58.9		44.05		56.0		32.45		5.5		41.33		1.8	
Mittl. Ort	29.65		36.1		37.85		95.5		27.69		42.5		37.39		30.4	
sec δ, tg δ	1.000		−0.006		2.584		+2.382		1.502		+1.121		1.036		+0.269	

1913	445) β Virginis. AR.	Δ	Dekl. +	Δ	447) γ Ursae maj. AR.	Δ	Dekl. +	Δ	450) ο Virginis. AR.	Δ	Dekl. +	Δ	452) δ Centauri. AR.	Δ	Dekl. −	Δ
	11h 46m		2° 14′		11h 49m		54° 10′		12h 0m		9° 12′		12h 3m		50° 14′	
Jan. 0	10.03 s	33	77.0 ″	21	16.78 s	50	26.6 ″	7	46.88 s	34	54.0 ″	20	50.15 s	45	1.1 ″	24
10	10.36	30	74.9	20	17.28	46	25.9	2	47.22	32	52.0	17	50.60	41	3.5	27
20	10.66	28	72.9	17	17.74	42	25.7	4	47.54	28	50.3	15	51.01	38	6.2	30
30	10.94	24	71.2	15	18.16	37	26.1	9	47.82	26	48.8	12	51.39	32	9.2	32
Febr. 9	11.18	20	69.7	12	18.53	30	27.0	15	48.08	21	47.6	9	51.71	27	12.4	34
19	11.38	15	68.5	10	18.83	23	28.5	18	48.29	17	46.7	5	51.98	21	15.8	33
März 1	11.53	11	67.5	6	19.06	15	30.3	21	48.46	12	46.2	3	52.19	15	19.1	34
11	11.64	7	66.9	4	19.21	8	32.4	24	48.58	8	45.9	1	52.34	10	22.5	32
21	11.71	4	66.5	2	19.29	2	34.8	24	48.66	5	46.0	2	52.44	4	25.7	30
31	11.75	0	66.3	0	19.31	5	37.2	25	48.71	1	46.2	5	52.48	1	28.7	28
April 10	11.75	3	66.3	2	19.26	11	39.7	23	48.72	1	46.7	6	52.47	4	31.5	26
20	11.72	5	66.5	3	19.15	16	42.0	22	48.71	4	47.3	7	52.43	9	34.1	22
30	11.67	6	66.8	5	18.99	18	44.2	19	48.67	7	48.0	7	52.34	12	36.3	19
Mai 10	11.61	8	67.3	5	18.81	22	46.1	15	48.60	7	48.7	8	52.22	15	38.2	16
20	11.53	8	67.8	5	18.59	23	47.6	12	48.53	8	49.5	7	52.07	17	39.8	11
30	11.45	9	68.3	6	18.36	24	48.8	7	48.45	9	50.2	7	51.90	19	40.9	7
Juni 9	11.36	9	68.9	6	18.12	24	49.5	3	48.36	10	50.9	6	51.71	20	41.6	2
19	11.27	9	69.5	5	17.88	23	49.8	2	48.26	9	51.5	6	51.51	21	41.8	2
29	11.18	8	70.0	6	17.65	22	49.6	6	48.17	9	52.1	4	51.30	20	41.6	5
Juli 9	11.10	8	70.6	4	17.43	20	49.0	11	48.08	8	52.5	3	51.10	21	41.1	10
19	11.02	6	71.0	4	17.23	17	47.9	15	48.00	8	52.8	2	50.89	18	40.1	14
29	10.96	5	71.4	4	17.06	14	46.4	18	47.92	6	53.0	1	50.71	17	38.7	17
Aug. 8	10.91	3	71.8	2	16.92	11	44.6	22	47.86	5	53.1	2	50.54	14	37.0	20
18	10.88	2	72.0	0	16.81	7	42.4	26	47.81	2	52.9	3	50.40	10	35.0	22
28	10.86	2	72.0	1	16.74	2	39.8	28	47.79	1	52.6	5	50.30	6	32.8	23
Sept. 7	10.88	4	71.9	3	16.72	2	37.0	31	47.78	3	52.1	7	50.24	1	30.5	23
17	10.92	9	71.6	7	16.74	9	33.9	35	47.81	7	51.4	11	50.23	7	28.2	25
27	[19] 11.01	12	70.9	8	[20] 16.83	15	30.4	34	[23] 47.88	10	50.3	13	[24] 50.30	12	25.7	20
Okt. 7	11.13	16	70.1	11	16.98	20	27.0	34	47.98	14	49.0	14	50.42	19	23.7	18
17	11.29	20	69.0	13	17.18	27	23.6	33	48.12	19	47.6	17	50.61	26	21.9	15
27	11.49	24	67.7	16	17.45	32	20.3	33	48.31	22	45.9	19	50.87	31	20.4	10
Nov. 6	11.73	27	66.1	18	17.77	38	17.0	32	48.53	27	44.0	21	51.18	37	19.4	5
16	12.00	30	64.3	21	18.15	43	13.8	28	48.80	29	41.9	22	51.55	42	18.9	1
26	12.30	33	62.2	21	18.58	46	11.0	25	49.09	32	39.7	23	51.97	45	19.0	6
Dez. 6	12.63	34	60.1	23	19.04	49	8.5	20	49.41	34	37.4	23	52.42	47	19.6	11
16	12.97	35	57.8	22	19.53	51	6.5	16	49.75	35	35.1	22	52.89	47	20.7	17
26	13.32	34	55.6	22	20.04	50	4.9	10	50.10	34	32.9	21	53.36	46	22.4	21
36	13.66		53.4		20.54		3.9		50.44		30.8		53.82		24.5	
Mittl. Ort	9.81		78.0		15.63		42.4		46.68		58.0		50.63		16.3	
sec δ, tg δ	1.001		+0.039		1.709		+1.386		1.013		+0.162		1.564		−1.202	

1913	453) ε Corvi. AR.		Dekl. −		454) 4 H. Dracon. AR.		Dekl. +		456) δ Ursae maj. AR.		Dekl. +		459) β Chamael. AR.		Dekl. −	
	$12^h\ 5^m$		22° 8′		$12^h\ 8^m$		78° 5′		$12^h\ 11^m$		57° 30′		$12^h\ 13^m$		78° 49′	
	s		″		s		″		s		″		s		″	
Jan. 0	38.73	35	2.6	24	11.65	119	39.1	3	8.66	53	39.7	8	10.95	122	25.3	18
10	39.08	33	5.0	25	12.84	114	38.8	4	9.19	50	38.9	3	12.17	113	27.1	23
20	39.41	29	7.5	25	13.98	106	39.2	11	9.69	47	38.6	4	13.30	102	29.4	28
30	39.70	26	10.0	25	15.04	92	40.3	16	10.16	42	39.0	9	14.32	88	32.2	33
Febr. 9	39.96	22	12.5	24	15.96	77	41.9	21	10.58	34	39.9	14	15.20	73	35.5	35
19	40.18	18	14.9	22	16.73	59	44.0	26	10.92	28	41.3	19	15.93	56	39.0	37
März 1	40.36	13	17.1	21	17.32	40	46.6	28	11.20	20	43.2	22	16.49	38	42.7	39
11	40.49	9	19.2	18	17.72	19	49.4	29	11.40	12	45.4	25	16.87	23	46.6	39
21	40.58	5	21.0	16	17.91	1	52.3	30	11.52	4	47.9	26	17.10	4	50.5	38
31	40.63	1	22.6	14	17.90	20	55.3	30	11.56	3	50.5	26	17.14	11	54.3	37
April 10	40.64	1	24.0	12	17.70	38	58.3	28	11.53	9	53.1	26	17.03	28	58.0	36
20	40.63	4	25.2	9	17.32	53	61.1	24	11.44	14	55.7	23	16.75	42	61.6	33
30	40.59	6	26.1	6	16.79	66	63.5	21	11.30	20	58.0	21	16.33	55	64.9	29
Mai 10	40.53	7	26.7	4	16.13	77	65.6	16	11.10	22	60.1	17	15.78	67	67.8	25
20	40.46	9	27.1	2	15.36	84	67.2	11	10.88	25	61.8	13	15.11	76	70.3	21
30	40.37	10	27.3	1	14.52	88	68.3	6	10.63	27	63.1	9	14.35	85	72.4	16
Juni 9	40.27	10	27.2	3	13.64	90	68.9	0	10.36	27	64.0	4	13.50	91	74.0	10
19	40.17	11	26.9	5	12.74	90	68.9	5	10.09	27	64.4	0	12.59	95	75.0	6
29	40.06	10	26.4	7	11.84	86	68.4	11	9.82	26	64.4	5	11.64	95	75.6	0
Juli 9	39.96	10	25.7	9	10.98	81	67.3	16	9.56	25	63.9	10	10.69	94	75.6	6
19	39.86	10	24.8	10	10.17	73	65.7	20	9.31	22	62.9	14	9.75	88	75.0	11
29	39.76	8	23.8	12	9.44	65	63.7	25	9.09	20	61.5	19	8.87	80	73.9	16
Aug. 8	39.68	6	22.6	12	8.79	54	61.2	29	8.89	16	59.6	22	8.07	71	72.3	21
18	39.62	5	21.4	12	8.25	42	58.3	32	8.73	12	57.4	26	7.36	56	70.2	24
28	39.57	2	20.2	11	7.83	30	55.1	35	8.61	7	54.8	29	6.80	41	67.8	27
Sept. 7	39.55	2	19.1	11	7.53	15	51.6	37	8.54	2	51.9	31	6.39	23	65.1	29
17	39.57	7	18.0	10	7.38	2	47.9	43	8.52	4	48.8	37	6.16	0	62.2	32
27	[24] 39.64	10	17.0	6	[25] 7.40	17	43.6	38	[26] 8.56	10	45.1	35	[26] 6.16	22	59.0	30
Okt. 7	39.74	15	16.4	4	7.57	33	39.8	39	8.66	17	41.6	36	6.38	43	56.0	28
17	39.89	19	16.0	0	7.90	50	35.9	37	8.83	24	38.0	36	6.81	63	53.2	24
27	40.08	24	16.0	4	8.40	65	32.2	36	9.07	30	34.4	34	7.44	83	50.8	21
Nov. 6	40.32	28	16.4	7	9.05	81	28.6	32	9.37	37	31.0	33	8.27	99	48.7	16
16	40.60	32	17.1	11	9.86	94	25.4	28	9.74	43	27.7	30	9.26	112	47.1	11
26	40.92	34	18.2	15	10.80	104	22.6	24	10.17	47	24.7	27	10.38	122	46.0	3
Dez. 6	41.26	36	19.7	18	11.84	114	20.2	18	10.64	51	22.0	22	11.60	127	45.7	2
16	41.62	36	21.5	21	12.98	119	18.4	12	11.15	53	19.8	17	12.87	129	45.9	9
26	41.98	35	23.6	24	14.17	120	17.2	6	11.68	53	18.1	11	14.16	125	46.8	15
36	42.33		26.0		15.37		16.6		12.21		17.0		15.41		48.3	
Mittl. Ort	38.87		9.3		8.22		58.8		7.58		57.3		13.20		45.1	
sec δ, tg δ	1.079		−0.407		4.852		+4.746		1.862		+1.571		5.165		−5.068	

1913	460) η Virginis. AR.		Dekl. −		462) α Crucis med. AR.		Dekl. −		466) 20 Comae. AR.		Dekl. +		465) δ Corvi. AR.		Dekl. −	
	12h 15m		0° 11′		12h 21m		62° 36′		12h 25m		21° 22′		12h 25m		16° 1′	
Jan. 0	27.28	34	1.5	21	44.30	59	45.2	20	21.30	36	30.8	18	21.45	34	48.3	23
10	27.62	32	3.6	21	44.89	56	47.2	25	21.66	34	29.0	15	21.79	33	50.6	23
20	27.94	29	5.7	18	45.45	50	49.7	29	22.00	31	27.5	11	22.12	30	52.9	23
30	28.23	26	7.5	17	45.95	44	52.6	31	22.31	28	26.4	8	22.42	27	55.2	22
Febr. 9	28.49	22	9.2	13	46.39	38	55.7	34	22.59	24	25.6	3	22.69	23	57.4	21
19	28.71	18	10.5	11	46.77	30	59.1	36	22.83	20	25.3	1	22.92	20	59.5	20
März 1	28.89	14	11.6	8	47.07	22	62.7	36	23.03	16	25.4	4	23.12	15	61.5	17
11	29.03	10	12.4	6	47.29	16	66.3	36	23.19	11	25.8	8	23.27	11	63.2	15
21	29.13	6	13.0	3	47.45	7	69.9	35	23.30	7	26.6	10	23.38	7	64.7	12
31	29.19	2	13.3	1	47.52	1	73.4	33	23.37	3	27.6	11	23.45	4	65.9	11
April 10	29.21	0	13.4	1	47.53	5	76.7	31	23.40	0	28.7	12	23.49	1	67.0	8
20	29.21	2	13.3	2	47.48	11	79.8	28	23.40	3	29.9	14	23.50	2	67.8	6
30	29.19	5	13.1	4	47.37	17	82.6	26	23.37	5	31.3	13	23.48	4	68.4	4
Mai 10	29.14	6	12.7	5	47.20	21	85.2	21	23.32	7	32.6	12	23.44	5	68.8	2
20	29.08	7	12.2	5	46.99	25	87.3	16	23.25	9	33.8	11	23.39	7	69.0	0
30	29.01	8	11.7	5	46.74	28	88.9	13	23.16	10	34.9	9	23.32	9	69.0	2
Juni 9	28.93	8	11.2	6	46.46	31	90.2	7	23.06	10	35.8	8	23.23	9	68.8	3
19	28.85	9	10.6	6	46.15	33	90.9	3	22.96	11	36.6	6	23.14	10	68.5	5
29	28.76	9	10.0	6	45.82	33	91.2	2	22.85	10	37.2	3	23.04	10	68.0	6
Juli 9	28.67	9	9.4	5	45.49	33	91.0	7	22.75	11	37.5	1	22.94	10	67.4	7
19	28.58	8	8.9	5	45.16	32	90.3	12	22.64	9	37.6	2	22.84	9	66.7	8
29	28.50	7	8.4	4	44.84	29	89.1	16	22.55	9	37.4	3	22.75	9	65.9	9
Aug. 8	28.43	6	8.0	3	44.55	26	87.5	19	22.46	8	37.1	7	22.66	7	65.0	9
18	28.37	4	7.7	1	44.29	20	85.6	23	22.38	5	36.4	9	22.59	5	64.1	9
28	28.33	2	7.6	0	44.09	14	83.3	25	22.33	3	35.5	12	22.54	3	63.2	8
Sept. 7	28.31	1	7.6	2	43.95	7	80.8	26	22.30	0	34.3	14	22.51	0	62.4	7
17	28.32	5	7.8	4	43.88	2	78.2	27	22.30	3	32.9	17	22.51	4	61.7	5
27	28.37	10	8.2	7	43.90	12	75.5	28	22.33	8	31.2	21	22.55	9	61.2	4
Okt. 7	28.47	13	8.9	9	44.02	21	72.7	23	22.41	12	29.1	21	22.64	12	60.8	0
17	28.60	17	9.8	12	44.23	29	70.4	21	22.53	16	27.0	23	22.76	17	60.8	3
27	28.77	21	11.0	14	44.52	38	68.3	16	22.69	21	24.7	25	22.93	21	61.1	6
Nov. 6	28.98	26	12.4	17	44.90	46	66.7	12	22.90	25	22.2	26	23.14	26	61.7	9
16	29.24	29	14.1	19	45.36	52	65.5	6	23.15	29	19.6	26	23.40	29	62.6	13
26	29.53	31	16.0	21	45.88	58	64.9	0	23.44	32	17.0	25	23.69	33	63.9	16
Dez. 6	29.84	33	18.1	22	46.46	60	64.9	5	23.76	34	14.5	25	24.02	34	65.5	19
16	30.17	35	20.3	22	47.06	62	65.4	12	24.10	36	12.0	23	24.36	36	67.4	20
26	30.52	34	22.5	23	47.68	60	66.6	18	24.46	36	9.7	20	24.72	34	69.4	22
36	30.86		24.8		48.28		68.4		24.82		7.7		25.06		71.6	
Mittl. Ort	27.26		0.2		45.30		62.6		21.10		39.9		21.64		52.2	
sec δ, tg δ	1.000		−0.003		2.175		−1.931		1.074		+0.391		1.040		−0.287	

1913	470) 8 Canum ven.				472) κ Dracon.				471) β Corvi.				473) 24 Comae sq.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +	
	$12^h\ 29^m$		41° 49′		$12^h\ 29^m$		70° 15′		$12^h\ 29^m$		22° 54′		$12^h\ 30^m$		18° 50′	
Jan. 0	37.32	42	33.1	15	48.18	78	43.5	7	48.53	36	50.6	23	46.15	35	72.7	19
10	37.74	40	31.6	9	48.96	75	42.8	1	48.89	34	52.9	24	46.50	34	70.8	16
20	38.14	37	30.7	4	49.71	71	42.7	5	49.23	32	55.3	24	46.84	31	69.2	12
30	38.51	33	30.3	2	50.42	63	43.2	12	49.55	27	57.7	24	47.15	28	68.0	9
Febr. 9	38.84	29	30.5	6	51.05	54	44.4	17	49.82	25	60.1	24	47.43	25	67.1	4
19	39.13	23	31.1	11	51.59	44	46.1	22	50.07	20	62.5	22	47.68	20	66.7	1
März 1	39.36	19	32.2	15	52.03	32	48.3	25	50.27	16	64.7	21	47.88	16	66.6	2
11	39.55	12	33.7	18	52.35	20	50.8	28	50.43	11	66.8	19	48.04	12	66.8	6
21	39.67	7	35.5	20	52.55	8	53.6	29	50.54	8	68.7	16	48.16	7	67.4	9
31	39.74	3	37.5	22	52.63	4	56.5	29	50.62	5	70.3	15	48.23	4	68.3	10
April 10	39.77	2	39.7	21	52.59	15	59.4	29	50.67	1	71.8	12	48.27	1	69.3	12
20	39.75	7	41.8	21	52.44	25	62.3	26	50.68	1	73.0	9	48.28	2	70.5	12
30	39.68	9	43.9	20	52.19	33	64.9	23	50.67	4	73.9	8	48.26	5	71.7	12
Mai 10	39.59	12	45.9	17	51.86	40	67.2	19	50.63	5	74.7	5	48.21	6	72.9	12
20	39.47	14	47.6	15	51.46	45	69.1	15	50.58	8	75.2	3	48.15	8	74.1	10
30	39.33	16	49.1	11	51.01	48	70.6	9	50.50	9	75.5	0	48.07	9	75.1	10
Juni 9	39.17	16	50.2	8	50.53	51	71.5	5	50.41	10	75.5	1	47.98	10	76.1	7
19	39.01	17	51.0	5	50.02	51	72.0	1	50.31	10	75.4	4	47.88	11	76.8	7
29	38.84	16	51.5	0	49.51	50	71.9	6	50.21	11	75.0	6	47.77	10	77.5	4
Juli 9	38.68	16	51.5	4	49.01	49	71.3	11	50.10	11	74.4	8	47.67	10	77.9	1
19	38.52	15	51.1	7	48.52	45	70.2	16	49.99	10	73.6	9	47.57	10	78.0	0
29	38.37	14	50.4	12	48.07	41	68.6	21	49.89	10	72.7	10	47.47	9	78.0	3
Aug. 8	38.23	11	49.2	15	47.66	35	66.5	25	49.79	8	71.7	11	47.38	8	77.7	5
18	38.12	10	47.7	18	47.31	29	64.0	29	49.71	6	70.6	12	47.30	5	77.2	8
28	38.02	6	45.9	22	47.02	22	61.1	32	49.65	4	69.4	11	47.25	3	76.4	10
Sept. 7	37.96	2	43.7	24	46.80	13	57.9	34	49.61	1	68.3	11	47.22	0	75.4	13
17	37.94	1	41.3	27	46.67	5	54.5	37	49.60	4	67.2	9	47.22	2	74.1	15
27	37.95	7	38.6	32	46.62	6	50.8	42	49.64	9	66.3	8	47.24	7	72.6	19
Okt. 7	38.02	12	35.4	31	46.68	16	46.6	38	49.73	12	65.5	4	47.31	11	70.7	20
17	38.14	17	32.3	32	46.84	27	42.8	38	49.85	17	65.1	2	47.42	16	68.7	22
27	38.31	22	29.1	32	47.11	37	39.0	37	50.02	22	64.9	2	47.58	20	66.5	24
Nov. 6	38.53	28	25.9	32	47.48	48	35.3	35	50.24	26	65.1	7	47.78	24	64.1	25
16	38.81	32	22.7	30	47.96	56	31.8	31	50.50	30	65.8	9	48.02	29	61.6	25
26	39.13	36	19.7	28	48.52	65	28.7	27	50.80	33	66.7	13	48.31	31	59.1	26
Dez. 6	39.49	39	16.9	25	49.17	71	26.0	23	51.13	35	68.0	17	48.62	34	56.5	24
16	39.88	41	14.4	22	49.88	75	23.7	16	51.48	37	69.7	19	48.96	35	54.1	23
26	40.29	41	12.2	17	50.63	77	22.1	11	51.85	36	71.6	22	49.31	35	51.8	21
36	40.70		10.5		51.40		21.0		52.21		73.8		49.66		49.7	
Mittl. Ort	36.86		48.2		46.57		63.6		48.83		56.7		46.02		81.1	
sec δ, tg δ	1.342		+0.895		2.962		+2.788		1.086		−0.423		1.057		+0.341	

1913	474) α Muscae. AR.		Dekl. −		476) γ Centauri. AR.		Dekl. −		478) 76 Ursae maj. AR.		Dekl. +		481) β Crucis. AR.		Dekl. −	
	$12^h\,31^m$		68° 39′		$12^h\,36^m$		48° 28′		$12^h\,37^m$		63° 10′		$12^h\,42^m$		59° 12′	
	s		″		s		″		s		″		s		″	
Jan. 0	57.57	73	4.9	18	41.97	45	42.0	21	47.18	61	66.5	10	36.60	56	32.1	17
10	58.30	68	6.7	23	42.42	43	44.1	23	47.79	59	65.5	4	37.16	53	33.8	22
20	58.98	63	9.0	27	42.85	40	46.4	27	48.38	56	65.1	2	37.69	49	36.0	27
30	59.61	56	11.7	31	43.25	36	49.1	30	48.94	50	65.3	9	38.18	45	38.7	30
Febr. 9	60.17	48	14.8	33	43.61	31	52.1	30	49.44	44	66.2	13	38.63	38	41.7	32
19	60.65	39	18.1	36	43.92	25	55.1	32	49.88	36	67.5	19	39.01	32	44.9	33
März 1	61.04	29	21.7	37	44.17	21	58.3	32	50.24	27	69.4	24	39.33	25	48.2	34
11	61.33	21	25.4	37	44.38	14	61.5	31	50.51	19	71.8	25	39.58	19	51.6	35
21	61.54	11	29.1	36	44.52	10	64.6	29	50.70	9	74.3	28	39.77	12	55.1	33
31	61.65	3	32.7	36	44.62	6	67.5	28	50.79	0	77.1	28	39.89	7	58.4	33
April 10	61.68	6	36.3	33	44.68	0	70.3	26	50.79	8	79.9	28	39.96	0	61.7	30
20	61.62	13	39.6	31	44.68	3	72.9	23	50.71	14	82.7	26	39.96	6	64.7	28
30	61.49	20	42.7	27	44.65	7	75.2	20	50.57	21	85.3	24	39.90	10	67.5	25
Mai 10	61.29	27	45.4	24	44.58	10	77.2	17	50.36	26	87.7	20	39.80	13	70.0	21
20	61.02	32	47.8	20	44.48	13	78.9	13	50.10	31	89.7	16	39.67	20	72.1	18
30	60.70	37	49.8	16	44.35	15	80.2	9	49.79	32	91.3	11	39.47	22	73.9	13
Juni 9	60.33	41	51.4	10	44.20	17	81.1	5	49.47	35	92.4	7	39.25	25	75.2	9
19	59.92	44	52.4	5	44.03	19	81.6	1	49.12	36	93.1	2	39.00	27	76.1	4
29	59.48	44	52.9	0	43.84	20	81.7	3	48.76	35	93.3	4	38.73	28	76.5	0
Juli 9	59.04	46	52.9	5	43.64	19	81.4	6	48.41	34	92.9	8	38.45	29	76.5	5
19	58.58	43	52.4	10	43.45	20	80.8	11	48.07	32	92.1	13	38.16	28	76.0	10
29	58.15	41	51.4	14	43.25	18	79.7	14	47.75	29	90.8	18	37.88	27	75.0	13
Aug. 8	57.74	36	50.0	19	43.07	16	78.3	17	47.46	26	89.0	22	37.61	24	73.7	18
18	57.38	30	48.1	23	42.91	13	76.6	19	47.20	22	86.8	27	37.37	20	71.9	21
28	57.08	21	45.8	25	42.78	9	74.7	21	46.98	16	84.1	29	37.17	15	69.8	23
Sept. 7	56.87	13	43.3	27	42.69	5	72.6	21	46.82	10	81.2	33	37.02	9	67.5	24
17	56.74	2	40.6	28	42.64	1	70.5	22	46.72	4	77.9	35	36.93	1	65.1	25
27	56.72	10	37.8	30	42.65	8	68.3	22	46.68	4	74.4	40	36.92	7	62.6	27
Okt. 7	[2] 56.82	22	34.8	26	[3] 42.73	14	66.1	19	[3] 46.72	12	70.4	37	[4] 36.99	15	59.9	23
17	57.04	33	32.2	23	42.87	21	64.2	15	46.84	21	66.7	37	37.14	24	57.6	21
27	57.37	44	29.9	19	43.08	27	62.7	11	47.05	28	63.0	37	37.38	33	55.5	16
Nov. 6	57.81	54	28.0	15	43.35	33	61.6	7	47.33	36	59.3	35	37.71	39	53.9	12
16	58.35	63	26.5	9	43.68	38	60.9	2	47.69	44	55.8	33	38.10	46	52.7	7
26	58.98	68	25.6	4	44.06	43	60.7	3	48.13	50	52.5	28	38.56	52	52.0	2
Dez. 6	59.66	73	25.2	3	44.49	45	61.0	8	48.63	55	49.7	25	39.08	54	51.8	4
16	60.39	75	25.5	8	44.94	46	61.8	13	49.18	59	47.2	19	39.62	57	52.2	10
26	61.14	74	26.3	15	45.40	46	63.1	18	49.77	61	45.3	13	40.19	57	53.2	15
36	61.88		27.8		45.86		64.9		50.38		44.0		40.76		54.7	
Mittl. Ort	59.05		23.0		42.71		55.7		46.16		86.1		37.72		47.9	
sec δ, tg δ	2.749		−2.560		1.509		−1.130		2.217		+1.979		1.956		−1.679	

1913	482) *η* Centauri. AR.		Dekl. −		483) ε Ursae maj. AR.		Dekl. +		484) δ Virginis. AR.		Dekl. +		485) 12 Can. ven. sq. AR.		Dekl. +	
	$12^h\,48^m$		$39°\,42'$		$12^h\,50^m$		$56°\,25'$		$12^h\,51^m$		$3°\,51'$		$12^h\,51^m$		$38°\,46'$	
Jan. 0	36.09	41	10.8	21	12.95	51	35.8	14	13.08	34	67.9	22	57.86	40	61.7	17
10	36.50	39	12.9	23	13.46	51	34.4	7	13.42	33	65.7	20	58.26	39	60.0	12
20	36.89	37	15.2	25	13.97	48	33.7	1	13.75	31	63.7	18	58.65	37	58.8	7
30	37.26	33	17.7	27	14.45	44	33.6	5	14.06	28	61.9	15	59.02	34	58.1	2
Febr. 9	37.59	30	20.4	28	14.89	39	34.1	10	14.34	25	60.4	12	59.36	30	57.9	4
19	37.89	24	23.2	28	15.28	32	35.1	16	14.59	21	59.2	9	59.66	25	58.3	8
März 1	38.13	21	26.0	28	15.60	25	36.7	20	14.80	17	58.3	6	59.91	20	59.1	12
11	38.34	15	28.8	27	15.85	19	38.7	23	14.97	13	57.7	3	60.11	16	60.3	16
21	38.49	11	31.5	25	16.04	11	41.0	26	15.10	10	57.4	0	60.27	10	61.9	19
31	38.60	7	34.0	24	16.15	4	43.6	26	15.20	6	57.4	2	60.37	5	63.8	21
April 10	38.67	3	36.4	21	16.19	3	46.2	27	15.26	4	57.6	3	60.42	1	65.9	21
20	38.70	0	38.5	19	16.16	9	48.9	26	15.30	0	57.9	5	60.43	3	68.0	21
30	38.70	4	40.4	16	16.07	14	51.5	24	15.30	2	58.4	6	60.40	7	70.1	20
Mai 10	38.66	6	42.0	14	15.93	17	53.9	21	15.28	4	59.0	7	60.33	9	72.1	19
20	38.60	9	43.4	11	15.76	22	56.0	17	15.24	5	59.7	7	60.24	11	74.0	16
30	38.51	11	44.5	7	15.54	24	57.7	14	15.19	7	60.4	7	60.13	13	75.6	13
Juni 9	38.40	12	45.2	4	15.30	25	59.1	9	15.12	8	61.1	7	60.00	15	76.9	10
19	38.28	14	45.6	0	15.05	27	60.0	4	15.04	9	61.8	6	59.85	15	77.9	7
29	38.14	15	45.6	3	14.78	27	60.4	1	14.95	9	62.4	6	59.70	16	78.6	2
Juli 9	37.99	16	45.3	6	14.51	27	60.3	5	14.86	10	63.0	5	59.54	16	78.8	1
19	37.83	15	44.7	10	14.24	25	59.8	10	14.76	10	63.5	4	59.38	15	78.7	5
29	37.68	15	43.7	12	13.99	24	58.8	15	14.66	9	63.9	2	59.23	15	78.2	9
Aug. 8	37.53	13	42.5	14	13.75	21	57.3	19	14.57	8	64.1	1	59.08	13	77.3	12
18	37.40	11	41.1	16	13.54	18	55.4	22	14.49	7	64.2	0	58.95	10	76.1	17
28	37.29	8	39.5	18	13.36	14	53.2	27	14.42	5	64.2	2	58.85	8	74.4	19
Sept. 7	37.21	4	37.7	18	13.22	10	50.5	29	14.37	2	64.0	4	58.77	5	72.5	22
17	37.17	0	35.9	17	13.12	4	47.6	33	14.35	1	63.6	6	58.72	1	70.3	25
27	37.17	6	34.2	18	13.08	2	44.3	35	14.36	4	63.0	9	58.71	3	67.8	28
Okt. 7	^{6}37.23	12	32.4	14	13.10	9	40.8	39	14.40	10	62.1	13	58.74	9	65.0	32
17	37.35	17	31.0	12	^{7}13.19	16	36.9	36	^{7}14.50	14	60.8	14	^{7}58.83	14	61.8	31
27	37.52	24	29.8	8	13.35	23	33.3	37	14.64	18	59.4	16	58.97	19	58.7	33
Nov. 6	37.76	28	29.0	4	13.58	30	29.6	35	14.82	23	57.8	18	59.16	24	55.4	32
16	38.04	33	28.6	1	13.88	36	26.1	33	15.05	26	56.0	21	59.40	29	52.2	31
26	38.37	38	28.7	6	14.24	41	22.8	30	15.31	30	53.9	22	59.69	33	49.1	29
Dez. 6	38.75	39	29.3	10	14.65	47	19.8	27	15.61	32	51.7	22	60.02	37	46.2	27
16	39.14	42	30.3	14	15.12	49	17.1	21	15.93	33	49.5	23	60.39	39	43.5	24
26	39.56	41	31.7	18	15.61	52	15.0	17	16.26	34	47.2	22	60.78	39	41.1	19
36	39.97		33.5		16.13		13.3		16.60		45.0		61.17		39.2	
Mittl. Ort	36.75		21.6		12.34		54.7		13.23		71.9		57.62		76.8	
sec δ, tg δ	1.300		−0.831		1.809		+1.507		1.002		+0.068		1.283		+0.804	

1913	486) 8 Draconis.				488) ε Virginis.				490) θ Virginis.				492) 43 Comae.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +	
	$12^h 52^m$		65° 53′		$12^h 57^m$		11° 25′		$13^h 5^m$		5° 4′		$13^h 7^m$		28° 18′	
Jan. 0	1.90	66	76.6	12	50.65	35	28.6	21	26.31	34	30.7	22	48.87	37	55.3	20
10	2.56	65	75.4	5	51.00	33	26.5	18	26.65	34	32.9	21	49.24	36	53.3	15
20	3.21	61	74.9	2	51.33	32	24.7	16	26.99	31	35.0	19	49.60	35	51.8	11
30	3.82	57	75.1	7	51.65	29	23.1	13	27.30	29	36.9	18	49.95	31	50.7	7
Febr. 9	4.39	50	75.8	14	51.94	25	21.8	9	27.59	26	38.7	16	50.26	29	50.0	1
19	4.89	41	77.2	18	52.19	22	20.9	5	27.85	23	40.3	14	50.55	24	49.9	3
März 1	5.30	32	79.0	23	52.41	18	20.4	1	28.08	18	41.7	10	50.79	20	50.2	7
11	5.62	23	81.3	26	52.59	14	20.3	1	28.26	15	42.7	9	50.99	16	50.9	10
21	5.85	12	83.9	28	52.73	11	20.4	4	28.41	11	43.6	6	51.15	11	51.9	14
31	5.97	3	86.7	30	52.84	6	20.8	6	28.52	8	44.2	3	51.26	7	53.3	16
April 10	6.00	6	89.7	28	52.90	4	21.4	8	28.60	5	44.5	2	51.33	4	54.9	17
20	5.94	15	92.5	27	52.94	1	22.2	10	28.65	3	44.7	1	51.37	0	56.6	18
30	5.79	21	95.2	25	52.95	2	23.2	10	28.68	1	44.6	2	51.37	3	58.4	18
Mai 10	5.58	28	97.7	22	52.93	4	24.2	9	28.67	2	44.4	3	51.34	6	60.2	16
20	5.30	34	99.9	18	52.89	5	25.1	10	28.65	4	44.1	3	51.28	7	61.8	16
30	4.96	36	101.7	13	52.84	8	26.1	9	28.61	6	43.8	5	51.21	10	63.4	13
Juni 9	4.60	39	103.0	8	52.76	8	27.0	8	28.55	8	43.3	5	51.11	11	64.7	11
19	4.21	41	103.8	2	52.68	9	27.8	7	28.47	8	42.8	5	51.00	12	65.8	8
29	3.80	41	104.0	2	52.59	10	28.5	6	28.39	9	42.3	6	50.88	12	66.6	6
Juli 9	3.39	41	103.8	7	52.49	10	29.1	4	28.30	10	41.7	5	50.76	14	67.2	2
19	2.98	38	103.1	13	52.39	11	29.5	2	28.20	10	41.2	6	50.62	13	67.4	1
29	2.60	36	101.8	17	52.28	9	29.7	1	28.10	10	40.6	5	50.49	13	67.3	4
Aug. 8	2.24	32	100.1	21	52.19	9	29.8	2	28.00	9	40.1	4	50.36	11	66.9	7
18	1.92	28	98.0	26	52.10	8	29.6	3	27.91	8	39.7	3	50.25	11	66.2	10
28	1.64	22	95.4	29	52.02	5	29.3	6	27.83	5	39.4	3	50.14	8	65.2	14
Sept. 7	1.42	16	92.5	33	51.97	3	28.7	8	27.78	4	39.1	1	50.06	5	63.8	17
17	1.26	8	89.2	35	51.94	0	27.9	11	27.74	0	39.0	1	50.01	2	62.1	19
27	1.18	1	85.7	37	51.94	4	26.8	13	27.74	3	39.1	3	49.99	2	60.2	22
Okt. 7	1.17	9	82.0	41	51.98	9	25.5	17	27.77	9	39.4	7	50.01	7	58.0	26
17	[7] 1.26	18	77.9	39	[9] 52.07	13	23.8	18	[11] 27.86	13	40.1	8	[11] 50.08	11	55.4	27
27	1.44	26	74.0	37	52.20	17	22.0	21	27.99	17	40.9	11	50.19	16	52.7	28
Nov. 6	1.70	36	70.3	36	52.37	22	19.9	22	28.16	22	42.0	14	50.35	22	49.9	29
16	2.06	44	66.7	34	52.59	26	17.7	23	28.38	26	43.4	16	50.57	25	47.0	29
26	2.50	52	63.3	30	52.85	29	15.4	24	28.64	29	45.0	19	50.82	30	44.1	29
Dez. 6	3.02	58	60.3	25	53.14	32	13.0	24	28.93	32	46.9	20	51.12	33	41.2	27
16	3.60	62	57.8	21	53.46	34	10.6	24	29.25	33	48.9	21	51.45	35	38.5	24
26	4.22	65	55.7	15	53.80	34	8.2	22	29.58	35	51.0	22	51.80	37	36.1	21
36	4.87		54.2		54.14		6.0		29.93		53.2		52.17		34.0	
Mittl. Ort	0.96		97.0		50.77		35.5		26.63		29.3		48.89		68.0	
sec δ, tg δ	2.450		+2.237		1.020		+0.202		1.004		−0.090		1.136		+0.539	

1913	495) γ Hydrae. AR.		Dekl. —		496) ι Centauri. AR.		Dekl. —		497) ζ Urs. maj. pr. AR.		Dekl. +		498) α Virginis. AR.		Dekl. —	
	13h 14m		22° 42′		13h 15m		36° 15′		13h 20m		55° 22′		13h 20m		10° 42′	
Jan. 0	10.76	37	42.0	20	41.26	41	4.7	18	25.75	50	26.4	17	35.99	34	27.1	21
10	11.13	36	44.0	22	41.67	39	6.5	21	26.25	49	24.7	11	36.33	34	29.2	21
20	11.49	33	46.2	22	42.06	37	8.6	23	26.74	48	23.6	5	36.67	33	31.3	20
30	11.82	31	48.4	22	42.43	34	10.9	25	27.22	45	23.1	1	37.00	30	33.3	20
Febr. 9	12.13	28	50.6	22	42.77	31	13.4	25	27.67	41	23.2	8	37.30	27	35.3	17
19	12.41	24	52.8	21	43.08	27	15.9	26	28.08	36	24.0	13	37.57	24	37.0	16
März 1	12.65	21	54.9	19	43.35	22	18.5	25	28.44	29	25.3	17	37.81	20	38.6	14
11	12.86	17	56.8	18	43.57	19	21.0	24	28.73	22	27.0	22	38.01	17	40.0	11
21	13.03	13	58.6	16	43.76	14	23.4	23	28.95	16	29.2	25	38.18	12	41.1	9
31	13.16	9	60.2	14	43.90	11	25.7	22	29.11	9	31.7	26	38.30	10	42.0	7
April 10	13.25	6	61.6	12	44.01	6	27.9	20	29.20	2	34.3	28	38.40	7	42.7	4
20	13.31	4	62.8	10	44.07	4	29.9	17	29.22	4	37.1	27	38.47	4	43.1	3
30	13.35	0	63.8	8	44.11	0	31.6	16	29.18	9	39.8	25	38.51	1	43.4	2
Mai 10	13.35	1	64.6	6	44.11	3	33.2	13	29.09	14	42.3	24	38.52	1	43.6	1
20	13.34	4	65.2	4	44.08	5	34.5	10	28.95	17	44.7	20	38.51	3	43.5	1
30	13.30	6	65.6	2	44.03	8	35.5	7	28.78	21	46.7	17	38.48	5	43.4	3
Juni 9	13.24	8	65.8	0	43.95	10	36.2	4	28.57	24	48.4	12	38.43	6	43.1	3
19	13.16	10	65.8	2	43.85	12	36.6	2	28.33	26	49.6	8	38.37	9	42.8	4
29	13.06	10	65.6	4	43.73	14	36.8	2	28.07	26	50.4	3	38.28	9	42.4	5
Juli 9	12.96	11	65.2	5	43.59	14	36.6	4	27.81	27	50.7	1	38.19	10	41.9	6
19	12.85	12	64.7	7	43.45	15	36.2	7	27.54	27	50.6	7	38.09	11	41.3	6
29	12.73	12	64.0	9	43.30	15	35.5	10	27.27	26	49.9	10	37.98	10	40.7	6
Aug. 8	12.61	11	63.1	9	43.15	14	34.5	11	27.01	25	48.9	16	37.88	11	40.1	6
18	12.50	9	62.2	9	43.01	12	33.4	14	26.76	21	47.3	20	37.77	9	39.5	5
28	12.41	7	61.3	10	42.89	10	32.0	15	26.55	19	45.3	24	37.68	7	39.0	5
Sept. 7	12.34	5	60.3	10	42.79	7	30.5	15	26.36	14	42.9	28	37.61	5	38.5	3
17	12.29	1	59.3	9	42.72	2	29.0	16	26.22	10	40.1	30	37.56	1	38.2	3
27	12.28	2	58.4	7	42.70	2	27.4	15	26.12	4	37.1	33	37.55	2	37.9	0
Okt. 7	12.30	9	57.7	6	42.72	9	25.9	14	26.08	3	33.8	39	37.57	7	37.9	3
17	12.39	13	57.1	2	42.81	13	24.5	10	26.11	10	29.9	37	37.64	11	38.2	4
27	12.52	17	56.9	0	42.94	20	23.5	7	26.21	17	26.2	37	37.75	17	38.6	8
Nov. 6	12.69	23	56.9	4	43.14	25	22.8	4	26.38	24	22.5	36	37.92	21	39.4	10
16	12.92	27	57.3	8	43.39	30	22.4	0	26.62	31	18.9	35	38.13	25	40.4	13
26	13.19	31	58.1	11	43.69	34	22.4	5	26.93	37	15.4	33	38.38	28	41.7	16
Dez. 6	13.50	34	59.2	14	44.03	37	22.9	8	27.30	42	12.1	30	38.66	32	43.3	18
16	13.84	36	60.6	16	44.40	40	23.7	13	27.72	46	9.1	25	38.98	34	45.1	19
26	14.20	36	62.2	19	44.80	40	25.0	17	28.18	49	6.6	20	39.32	35	47.0	20
36	14.56		64.1		45.20		26.7		28.67		4.6		39.67		49.0	
Mittl. Ort	11.34		46.4		42.06		13.3		25.51		46.0		36.45		27.1	
sec δ, tg δ	1.084		−0.419		1.240		−0.733		1.760		+1.448		1.018		−0.189	

1913	499) Gr. 2001.				500) 69 H. Urs. maj.				501) ζ Virginis.				502) 17 H. Can. ven.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +	
	13h 23m		72° 49′		13h 25m		60° 22′		13h 30m		0° 9′		13h 30m		37° 37′	
Jan. 0	55.59 s	85	73.1″	14	15.91 s	55	81.1″	17	15.12 s	34	9.3″	22	54.72 s	39	24.2″	21
10	56.44	84	71.7	8	16.46	56	79.4	10	15.46	33	11.5	20	55.11	39	22.1	16
20	57.28	83	70.9	0	17.02	54	78.4	4	15.79	32	13.5	18	55.50	38	20.5	11
30	58.11	79	70.9	6	17.56	50	78.0	2	16.11	30	15.3	17	55.88	35	19.4	5
Febr. 9	58.90	71	71.5	11	18.06	46	78.2	8	16.41	28	17.0	14	56.23	32	18.9	0
19	59.61	61	72.6	18	18.52	40	79.0	15	16.69	24	18.4	11	56.55	29	18.9	6
März 1	60.22	51	74.4	22	18.92	33	80.5	19	16.93	21	19.5	8	56.84	24	19.5	10
11	60.73	37	76.6	27	19.25	26	82.4	23	17.14	17	20.3	5	57.08	19	20.5	14
21	61.10	24	79.3	28	19.51	18	84.7	26	17.31	13	20.8	3	57.27	14	21.9	18
31	61.34	11	82.1	30	19.69	9	87.3	28	17.44	11	21.1	0	57.41	11	23.7	20
April 10	61.45	3	85.1	30	19.78	2	90.1	28	17.55	7	21.1	2	57.52	5	25.7	22
20	61.42	15	88.1	30	19.80	5	92.9	28	17.62	4	20.9	3	57.57	2	27.9	22
30	61.27	26	91.1	27	19.75	11	95.7	27	17.66	2	20.6	5	57.59	2	30.1	22
Mai 10	61.01	36	93.8	24	19.64	17	98.4	24	17.68	1	20.1	5	57.57	6	32.3	20
20	60.65	45	96.2	21	19.47	22	100.8	21	17.67	2	19.6	6	57.51	8	34.3	19
30	60.20	51	98.3	16	19.25	26	102.9	17	17.65	5	19.0	7	57.43	11	36.2	16
Juni 9	59.69	57	99.9	11	18.99	29	104.6	13	17.60	6	18.3	7	57.32	12	37.8	13
19	59.12	61	101.0	7	18.70	31	105.9	8	17.54	8	17.6	6	57.20	15	39.1	11
29	58.51	63	101.7	0	18.39	33	106.7	3	17.46	9	17.0	6	57.05	15	40.2	6
Juli 9	57.88	63	101.7	5	18.06	33	107.0	2	17.37	10	16.4	5	56.90	17	40.8	2
19	57.25	62	101.2	10	17.73	33	106.8	7	17.27	11	15.9	5	56.73	17	41.0	1
29	56.63	60	100.2	15	17.40	32	106.1	11	17.16	11	15.4	4	56.56	16	40.9	5
Aug. 8	56.03	56	98.7	20	17.08	30	105.0	17	17.05	10	15.0	3	56.40	15	40.4	10
18	55.47	50	96.7	24	16.78	27	103.3	21	16.95	9	14.7	1	56.25	15	39.4	13
28	54.97	43	94.3	29	16.51	23	101.2	25	16.86	8	14.6	0	56.10	12	38.1	16
Sept. 7	54.54	36	91.4	32	16.28	19	98.7	29	16.78	6	14.6	1	55.98	9	36.5	20
17	54.18	27	88.2	35	16.09	13	95.8	32	16.72	2	14.7	4	55.89	6	34.5	23
27	53.91	15	84.7	37	15.96	7	92.6	34	16.70	1	15.1	6	55.83	2	32.2	27
Okt. 7	53.76	4	81.0	42	15.89	1	89.2	40	16.71	5	15.7	8	55.81	3	29.5	29
17	[16]53.72	9	76.8	39	[16]15.90	9	85.2	38	16.76	10	16.5	12	[18]55.84	9	26.6	33
27	53.81	22	72.9	39	15.99	16	81.4	38	[17]16.86	15	17.7	14	55.93	14	23.3	32
Nov. 6	54.03	34	69.0	38	16.15	25	77.6	37	17.01	19	19.1	16	56.07	19	20.1	32
16	54.37	47	65.2	35	16.40	32	73.9	36	17.20	24	20.7	18	56.26	25	16.9	33
26	54.84	57	61.7	33	16.72	40	70.3	33	17.44	27	22.5	20	56.51	29	13.6	31
Dez. 6	55.41	68	58.4	28	17.12	46	67.0	30	17.71	30	24.5	20	56.80	34	10.5	30
16	56.09	76	55.6	23	17.58	50	64.0	25	18.01	33	26.5	22	57.14	36	7.5	26
26	56.85	81	53.3	17	18.08	54	61.5	19	18.34	34	28.7	22	57.50	38	4.9	23
36	57.66		51.6		18.62		59.6		18.68		30.9		57.88		2.6	
Mittl. Ort	54.86		95.0		15.63		101.6		15.53		5.3		54.81		40.1	
sec δ, tg δ	3.390		+3.239		2.024		+1.759		1.000		—0.003		1.263		+0.771	

1913	504) ε Centauri. AR.		504) ε Centauri. Dekl. −		507) τ Bootis. AR.		507) τ Bootis. Dekl. +		509) η Ursae maj. AR.		509) η Ursae maj. Dekl. +		510) 89 Virginis. AR.		510) 89 Virginis. Dekl. −	
	$13^h 34^m$		53° 1'		$13^h 43^m$		17° 52'		$13^h 44^m$		49° 44'		$13^h 45^m$		17° 42'	
Jan. 0	20.62	51	16.3	17	7.33	35	73.4	22	6.78	44	30.7	20	7.81	36	2.7	19
10	21.13	50	18.0	20	7.68	34	71.2	20	7.22	45	28.7	15	8.17	35	4.6	20
20	21.63	48	20.0	24	8.02	33	69.2	16	7.67	43	27.2	9	8.52	34	6.6	20
30	22.11	45	22.4	27	8.35	32	67.6	11	8.10	43	26.3	3	8.86	32	8.6	20
Febr. 9	22.56	40	25.1	29	8.67	29	66.5	8	8.53	38	26.0	3	9.18	29	10.6	19
19	22.96	37	28.0	29	8.96	26	65.7	3	8.91	34	26.3	9	9.47	27	12.5	18
März 1	23.33	31	30.9	31	9.22	22	65.4	0	9.25	29	27.2	14	9.74	23	14.3	16
11	23.64	26	34.0	30	9.44	18	65.4	5	9.54	23	28.6	19	9.97	19	15.9	14
21	23.90	21	37.0	29	9.62	15	65.9	7	9.77	18	30.5	22	10.16	16	17.3	13
31	24.11	15	39.9	28	9.77	11	66.6	11	9.95	12	32.7	25	10.32	12	18.6	10
April 10	24.26	11	42.7	27	9.88	8	67.7	12	10.07	7	35.2	26	10.44	10	19.6	9
20	24.37	6	45.4	24	9.96	4	68.9	13	10.14	1	37.8	26	10.54	7	20.5	7
30	24.43	0	47.8	21	10.00	2	70.2	15	10.15	4	40.4	26	10.61	3	21.2	5
Mai 10	24.43	3	49.9	18	10.02	1	71.7	14	10.11	8	43.0	25	10.64	1	21.7	3
20	24.40	7	51.7	16	10.01	3	73.1	14	10.03	12	45.5	21	10.65	1	22.0	2
30	24.33	12	53.3	11	9.98	6	74.5	13	9.91	16	47.6	19	10.64	3	22.2	0
Juni 9	24.21	15	54.4	8	9.92	7	75.8	11	9.75	18	49.5	15	10.61	6	22.2	0
19	24.06	17	55.2	5	9.85	9	76.9	10	9.57	20	51.0	11	10.55	8	22.2	3
29	23.89	21	55.7	0	9.76	11	77.9	7	9.37	22	52.1	7	10.47	9	21.9	3
Juli 9	23.68	23	55.7	4	9.65	11	78.6	6	9.15	23	52.8	2	10.38	11	21.6	4
19	23.45	23	55.3	7	9.54	12	79.2	3	8.92	24	53.0	2	10.27	11	21.2	6
29	23.22	23	54.6	12	9.42	13	79.5	0	8.68	23	52.8	7	10.16	12	20.6	6
Aug. 8	22.99	23	53.4	14	9.29	12	79.5	2	8.45	23	52.1	12	10.04	12	20.0	7
18	22.76	20	52.0	17	9.17	12	79.3	5	8.22	21	50.9	16	9.92	11	19.3	7
28	22.56	18	50.3	20	9.05	9	78.8	8	8.01	18	49.3	20	9.81	9	18.6	7
Sept. 7	22.38	12	48.3	21	8.96	8	78.0	10	7.83	15	47.3	24	9.72	7	17.9	7
17	22.26	9	46.2	21	8.88	5	77.0	14	7.68	12	44.9	27	9.65	4	17.2	5
27	22.17	1	44.1	21	8.83	1	75.6	16	7.56	6	42.2	30	9.61	0	16.7	5
Okt. 7	22.16	5	42.0	20	8.82	3	74.0	18	7.50	1	39.2	33	9.61	4	16.2	2
17	22.21	15	40.0	20	8.85	8	72.2	23	7.49	6	35.9	39	9.65	10	16.0	0
27	18 22.36	21	38.0	14	21 8.93	12	69.9	24	21 7.55	12	32.0	36	21 9.75	14	16.0	2
Nov. 6	22.57	29	36.6	11	9.05	18	67.5	25	7.67	19	28.4	36	9.89	19	16.2	6
16	22.86	35	35.5	6	9.23	22	65.0	26	7.86	25	24.8	35	10.08	24	16.8	8
26	23.21	42	34.9	1	9.45	26	62.4	26	8.11	31	21.3	34	10.32	28	17.6	12
Dez. 6	23.63	45	34.8	4	9.71	30	59.8	27	8.42	36	17.9	32	10.60	32	18.8	14
16	24.08	49	35.2	9	10.01	32	57.1	25	8.78	40	14.7	27	10.92	33	20.2	16
26	24.57	51	36.1	14	10.33	34	54.6	23	9.18	43	12.0	23	11.25	35	21.8	18
36	25.08		37.5		10.67		52.3		9.61		9.7		11.60		23.6	
Mittl. Ort	22.00		28.1		7.67		83.9		6.86		49.7		8.50		4.1	
sec δ, tg δ	1.663		−1.329		1.051		+0.323		1.548		+1.181		1.050		−0.319	

1913	512) ζ Centauri.				513) η Bootis.				516) τ Virginis.				517) 11 Bootis.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	13h 50m		46° 51′		13h 50m		18° 49′		13h 57m		1° 57′		13h 57m		27° 47′	
Jan. 0	5.00	46	28.1	12	32.16	34	49.4	23	12.51	34	48.6	21	13.47	36	69.2	23
10	5.46	46	29.3	17	32.50	35	47.1	20	12.85	33	46.5	20	13.83	35	66.9	19
20	5.92	44	31.0	19	32.85	34	45.1	16	13.18	33	44.5	19	14.18	36	65.0	15
30	6.36	42	32.9	22	33.19	32	43.5	11	13.51	32	42.6	16	14.54	34	63.5	10
Febr. 9	6.78	38	35.1	24	33.51	29	42.4	8	13.83	29	41.0	13	14.88	31	62.5	5
19	7.16	35	37.5	26	33.80	27	41.6	3	14.12	26	39.7	10	15.19	28	62.0	0
März 1	7.51	30	40.1	26	34.07	23	41.3	0	14.38	22	38.7	7	15.47	24	62.0	5
11	7.81	26	42.7	27	34.30	19	41.3	5	14.60	20	38.0	4	15.71	21	62.5	9
21	8.07	21	45.4	27	34.49	15	41.8	8	14.80	16	37.6	1	15.92	16	63.4	12
31	8.28	17	48.1	26	34.64	12	42.6	11	14.96	13	37.5	1	16.08	13	64.6	16
April 10	8.45	12	50.7	24	34.76	9	43.7	12	15.09	10	37.6	3	16.21	9	66.2	17
20	8.57	9	53.1	23	34.85	5	44.9	15	15.19	7	37.9	6	16.30	5	67.9	19
30	8.66	4	55.4	22	34.90	2	46.4	14	15.26	4	38.5	6	16.35	2	69.8	19
Mai 10	8.70	0	57.6	19	34.92	0	47.8	15	15.30	2	39.1	7	16.37	1	71.7	19
20	8.70	4	59.5	16	34.92	3	49.3	14	15.32	1	39.8	8	16.36	3	73.6	18
30	8.66	7	61.1	13	34.89	5	50.7	14	15.31	3	40.6	8	16.33	7	75.4	16
Juni 9	8.59	10	62.4	11	34.84	7	52.1	12	15.28	5	41.4	7	16.26	8	77.0	15
19	8.49	14	63.5	7	34.77	9	53.3	10	15.23	7	42.1	7	16.18	11	78.5	11
29	8.35	16	64.2	4	34.68	11	54.3	8	15.16	9	42.8	7	16.07	12	79.6	9
Juli 9	8.19	18	64.6	0	34.57	11	55.1	5	15.07	9	43.5	6	15.95	14	80.5	5
19	8.01	20	64.6	4	34.46	13	55.6	3	14.98	11	44.1	5	15.81	14	81.0	3
29	7.81	19	64.2	7	34.33	13	55.9	1	14.87	12	44.6	3	15.67	15	81.3	1
Aug. 8	7.62	20	63.5	10	34.20	12	56.0	2	14.75	11	44.9	3	15.52	14	81.2	4
18	7.42	19	62.5	13	34.08	12	55.8	5	14.64	11	45.2	1	15.38	14	80.8	8
28	7.23	15	61.2	16	33.96	10	55.3	8	14.53	10	45.3	1	15.24	12	80.0	11
Sept. 7	7.08	13	59.6	18	33.86	9	54.5	11	14.43	8	45.2	2	15.12	11	78.9	15
17	6.95	8	57.8	18	33.77	5	53.4	14	14.35	5	45.0	5	15.01	7	77.4	17
27	6.87	3	56.0	19	33.72	2	52.0	16	14.30	1	44.5	7	14.94	4	75.7	21
Okt. 7	6.84	4	54.1	18	33.70	2	50.4	19	14.29	2	43.8	9	14.90	1	73.6	23
17	6.88	12	52.3	19	33.72	7	48.5	24	14.31	7	42.9	13	14.91	6	71.3	28
	23				23				25				25			
27	7.00	17	50.4	14	33.79	12	46.1	24	14.38	12	41.6	14	14.97	10	68.5	28
Nov. 6	7.17	24	49.0	11	33.91	17	43.7	25	14.50	17	40.2	17	15.07	16	65.7	29
16	7.41	31	47.9	8	34.08	21	41.2	26	14.67	21	38.5	18	15.23	21	62.8	31
26	7.72	36	47.1	3	34.29	26	38.6	28	14.88	25	36.7	20	15.44	26	59.7	30
Dez. 6	8.08	40	46.8	1	34.55	29	35.8	27	15.13	29	34.7	22	15.70	29	56.7	29
16	8.48	44	46.9	5	34.84	32	33.1	25	15.42	32	32.5	22	15.99	33	53.8	27
26	8.92	45	47.4	10	35.16	34	30.6	24	15.74	33	30.3	21	16.32	34	51.1	24
36	9.37		48.4		35.50		28.2		16.07		28.2		16.66		48.7	
Mittl. Ort	6.29		38.0		32.54		60.3		13.07		54.3		13.83		83.0	
sec δ, tg δ	1.463		−1.067		1.056		+0.341		1.001		+0.034		1.130		+0.527	

1913	518) β Centauri. AR.		Dekl. −		520) ϑ Centauri. AR.		Dekl. −	
	$13^h\ 57^m$		59° 57′		$14^h\ 1^m$		35° 56′	
Jan. 0	38.47	58	1.7	8	32.34	40	26.5	14
10	39.05	59	2.5	12	32.74	40	27.9	17
20	39.64	57	3.7	17	33.14	39	29.6	19
30	40.21	54	5.4	21	33.53	37	31.5	21
Febr. 9	40.75	51	7.5	25	33.90	34	33.6	21
19	41.26	46	10.0	26	34.24	31	35.7	23
März 1	41.72	40	12.6	29	34.55	28	38.0	22
11	42.12	35	15.5	30	34.83	24	40.2	22
21	42.47	28	18.5	30	35.07	20	42.4	22
31	42.75	23	21.5	31	35.27	16	44.6	20
April 10	42.98	17	24.6	30	35.43	13	46.6	19
20	43.15	10	27.6	29	35.56	9	48.5	17
30	43.25	5	30.5	27	35.65	6	50.2	16
Mai 10	43.30	1	33.2	26	35.71	2	51.8	14
20	43.29	7	35.8	22	35.73	1	53.2	11
30	43.22	12	38.0	19	35.72	3	54.3	9
Juni 9	43.10	17	39.9	16	35.69	7	55.2	7
19	42.93	21	41.5	12	35.62	9	55.9	5
29	42.72	25	42.7	8	35.53	12	56.4	1
Juli 9	42.47	28	43.5	4	35.41	13	56.5	1
19	42.19	29	43.9	1	35.28	15	56.4	3
29	41.90	31	43.8	6	35.13	16	56.1	6
Aug. 8	41.59	30	43.2	9	34.97	16	55.5	9
18	41.29	29	42.3	14	34.81	15	54.6	10
28	41.00	25	40.9	17	34.66	14	53.6	12
Sept. 7	40.75	20	39.2	20	34.52	10	52.4	14
17	40.55	14	37.2	22	34.42	8	51.0	13
27	40.41	7	35.0	24	34.34	3	49.7	14
Okt. 7	40.34	1	32.6	24	34.31	3	48.3	13
17	40.35	12	30.2	25	34.34	9	47.0	12
27	25 40.47	20	27.7	21	26 34.43	14	45.8	9
Nov. 6	40.67	29	25.6	18	34.57	20	44.9	5
16	40.96	38	23.8	14	34.77	26	44.4	3
26	41.34	45	22.4	10	35.03	30	44.1	2
Dez. 6	41.79	50	21.4	5	35.33	35	44.3	4
16	42.29	56	20.9	0	35.68	38	44.7	9
26	42.85	58	20.9	5	36.06	39	45.6	12
36	43.43		21.4		36.45		46.8	
Mittl. Ort	40.40		13.9		33.42		32.8	
sec δ, tg δ	1.998		—1.729		1.235		—0.725	

1913	521) α Draconis. AR.		Dekl. +		522) d Bootis. AR.		Dekl. +	
	$14^h\ 2^m$		64° 46′		$14^h\ 6^m$		25° 29′	
Jan. 0	1.81	59	67.6	21	25.47	35	58.8	24
10	2.40	61	65.5	14	25.82	35	56.4	19
20	3.01	61	64.1	7	26.17	35	54.5	16
30	3.62	59	63.4	1	26.52	34	52.9	11
Febr. 9	4.21	55	63.3	5	26.86	31	51.8	6
19	4.76	50	63.8	12	27.17	28	51.2	1
März 1	5.26	43	65.0	17	27.45	25	51.1	3
11	5.69	35	66.7	22	27.70	21	51.4	8
21	6.04	27	68.9	26	27.91	17	52.2	11
31	6.31	18	71.5	28	28.08	14	53.3	14
April 10	6.49	8	74.3	30	28.22	10	54.7	16
20	6.57	1	77.3	30	28.32	6	56.3	18
30	6.58	8	80.3	29	28.38	4	58.1	18
Mai 10	6.50	16	83.2	27	28.42	0	59.9	19
20	6.34	22	85.9	25	28.42	3	61.8	18
30	6.12	28	88.4	21	28.39	5	63.6	16
Juni 9	5.84	33	90.5	16	28.34	8	65.2	14
19	5.51	37	92.1	12	28.26	9	66.6	12
29	5.14	40	93.3	8	28.17	12	67.8	9
Juli 9	4.74	41	94.1	2	28.05	13	68.7	7
19	4.33	43	94.3	3	27.92	13	69.4	3
29	3.90	42	94.0	8	27.79	15	69.7	0
Aug. 8	3.48	41	93.2	14	27.64	14	69.7	3
18	3.07	39	91.8	18	27.50	14	69.4	6
28	2.68	36	90.0	23	27.36	13	68.8	10
Sept. 7	2.32	30	87.7	27	27.23	11	67.8	13
17	2.02	25	85.0	30	27.12	8	66.5	16
27	1.77	18	82.0	34	27.04	4	64.9	19
Okt. 7	1.59	11	78.6	36	27.00	0	63.0	22
17	1.48	1	75.0	41	27.00	4	60.8	24
27	26 1.47	8	70.9	39	27.04	10	58.4	30
Nov. 6	1.55	18	67.0	39	27 27.14	15	55.4	28
16	1.73	27	63.1	37	27.29	20	52.6	29
26	2.00	36	59.4	36	27.49	25	49.7	30
Dez. 6	2.36	45	55.8	32	27.74	28	46.7	29
16	2.81	51	52.6	29	28.02	32	43.8	27
26	3.32	56	49.7	23	28.34	34	41.1	25
36	3.88		47.4		28.68		38.6	
Mittl. Ort	1.98		89.2		25.91		72.1	
sec δ, tg δ	2.348		+2.124		1.108		+0.477	

1913	523) ϰ Virginis. AR.		Dekl. —		524) 4 Ursae min. AR.		Dekl. +		525) ι Virginis. AR.		Dekl. —		526) α Bootis. AR.		Dekl. +	
	14h 8m		9° 52′		14h 9m		77° 56′		14h 11m		5° 35′		14h 11m		19° 37′	
Jan. 0	14.43	35	11.3	20	9.85	105	60.2	19	26.31	34	12.8	20	41.06	34	54.0	24
10	14.78	33	13.3	19	10.90	110	58.3	13	26.65	34	14.8	20	41.40	34	51.6	21
20	15.11	34	15.2	19	12.00	113	57.0	5	26.99	33	16.8	19	41.74	34	49.5	17
30	15.45	32	17.1	18	13.13	111	56.5	1	27.32	32	18.7	17	42.08	32	47.8	13
Febr. 9	15.77	30	18.9	16	14.24	105	56.6	7	27.64	29	20.4	15	42.40	30	46.5	9
19	16.07	27	20.5	14	15.29	95	57.3	14	27.93	27	21.9	13	42.70	28	45.6	4
März 1	16.34	24	21.9	12	16.24	83	58.7	19	28.20	25	23.2	10	42.98	24	45.2	0
11	16.58	21	23.1	10	17.07	67	60.6	24	28.45	21	24.2	8	43.22	21	45.2	4
21	16.79	18	24.1	8	17.74	49	63.0	28	28.66	17	25.0	5	43.43	17	45.6	8
31	16.97	14	24.9	5	18.23	31	65.8	29	28.83	15	25.5	3	43.60	14	46.4	11
April 10	17.11	12	25.4	3	18.54	13	68.7	31	28.98	12	25.8	1	43.74	11	47.5	13
20	17.23	8	25.7	2	18.67	7	71.8	31	29.10	8	25.9	1	43.85	7	48.8	14
30	17.31	6	25.9	0	18.60	24	74.9	30	29.18	6	25.8	2	43.92	4	50.2	16
Mai 10	17.37	3	25.9	1	18.36	41	77.9	27	29.24	3	25.6	3	43.96	1	51.8	15
20	17.40	1	25.8	2	17.95	55	80.6	25	29.27	1	25.3	5	43.97	1	53.3	16
30	17.41	2	25.6	3	17.40	68	83.1	20	29.28	1	24.8	4	43.96	4	54.9	14
Juni 9	17.39	4	25.3	4	16.72	79	85.1	16	29.27	4	24.4	5	43.92	7	56.3	13
19	17.35	6	24.9	4	15.93	88	86.7	12	29.23	6	23.9	6	43.85	8	57.6	10
29	17.29	8	24.5	4	15.05	93	87.9	6	29.17	8	23.3	5	43.77	10	58.6	9
Juli 9	17.21	10	24.1	5	14.12	97	88.5	0	29.09	10	22 8	5	43.67	12	59.5	7
19	17.11	11	23.6	5	13.15	99	88.5	5	28.99	11	22.3	5	43.55	13	60.2	3
29	17.00	12	23.1	6	12.16	98	88.0	9	28.88	12	21.8	5	43.42	14	60.5	1
Aug. 8	16.88	12	22.5	4	11.18	96	87.1	16	28.76	12	21.3	3	43.28	14	60.6	2
18	16.76	11	22.1	5	10.22	90	85.5	20	28.64	11	21.0	3	43.14	13	60.4	5
28	16.65	11	21.6	4	9.32	83	83.5	24	28.53	11	20.7	3	43.01	13	59.9	7
Sept. 7	16.54	8	21.2	2	8.49	73	81.1	29	28.42	9	20.4	1	42.88	10	59.2	11
17	16.46	6	21.0	2	7.76	62	78.2	32	28.33	6	20.3	1	42.78	8	58.1	13
27	16.40	3	20.8	0	7.14	48	75.0	35	28.27	2	20.4	3	42.70	5	56.8	17
Okt. 7	16.37	2	20.8	2	6.66	33	71.5	37	28.25	1	20.7	5	42.65	0	55.1	19
17	16.39	6	21.0	4	6.33	17	67.8	39	28.26	5	21.2	7	42.65	4	53.2	23
27	16.45	12	21.4	7	6.16	2	63.9	43	28.31	12	21.9	10	42.69	10	50.9	26
Nov. 6	[27] 16.57	17	22.1	10	[28] 6.18	22	59.6	39	[28] 28.43	16	22.9	12	[28] 42.79	14	48.3	26
16	16.74	21	23.1	12	6.40	40	55.7	37	28.59	20	24.1	14	42.93	19	45.7	27
26	16.95	25	24.3	14	6.80	57	52.0	35	28.79	25	25.5	16	43.12	24	43.0	29
Dez. 6	17.20	29	25.7	16	7.37	74	48.5	32	29.04	28	27.1	18	43.36	27	40.1	27
16	17.49	32	27.3	18	8.11	88	45.3	27	29.32	31	28.9	20	43.63	31	37.4	27
26	17.81	33	29.1	19	8.99	100	42.6	22	29.63	33	30.9	20	43.94	33	34.7	25
36	18.14		31.0		9.99		40.4		29.96		32.9		44.27		32.2	
Mittl. Ort	15.16		9.2		10.12		82.8		27.01		9.1		41.56		65.7	
sec δ, tg δ	1.015		—0.174		4.793		+4.687		1.005		—0.099		1.062		+0.357	

1913	527) λ Bootis. AR.		Dekl. +		531) ϑ Bootis. AR.		Dekl. +		534) ρ Bootis. AR.		Dekl. +		535) γ Bootis. AR.		Dekl. +	
	$14^h\ 13^m$		46° 28′		$14^h\ 22^m$		52° 14′		$14^h\ 28^m$		30° 44′		$14^h\ 28^m$		38° 40′	
Jan. 0	4.26	41	56.0	24	13.67	44	49.2	24	4.30	35	55.1	24	33.99	37	61.1	25
10	4.67	42	53.6	18	14.11	45	46.8	18	4.65	35	52.7	21	34.36	37	58.6	21
20	5.09	42	51.8	13	14.56	45	45.0	13	5.00	36	50.6	16	34.73	39	56.5	15
30	5.51	40	50.5	6	15.01	45	43.7	6	5.36	35	49.0	11	35.12	37	55.0	10
Febr. 9	5.91	38	49.9	0	15.46	42	43.1	0	5.71	33	47.9	6	35.49	35	54.0	4
19	6.29	35	49.9	5	15.88	39	43.1	6	6.04	30	47.3	1	35.84	32	53.6	— 2
März 1	6.64	31	50.4	11	16.27	34	43.7	12	6.34	28	47.2	— 4	36.16	30	53.8	8
11	6.95	26	51.5	16	16.61	29	44.9	17	6.62	23	47.6	10	36.46	25	54.6	12
21	7.21	20	53.1	20	16.90	24	46.6	21	6.85	20	48.6	13	36.71	21	55.8	16
31	7.41	16	55.1	23	17.14	17	48.7	25	7.05	16	49.9	16	36.92	16	57.4	20
April 10	7.57	10	57.4	25	17.31	12	51.2	27	7.21	13	51.5	19	37.08	13	59.4	22
20	7.67	5	59.9	27	17.43	6	53.9	28	7.34	8	53.4	21	37.21	8	61.6	24
30	7.72	1	62.6	26	17.49	1	56.7	28	7.42	5	55.5	21	37.29	4	64.0	25
Mai 10	7.73	— 3	65.2	26	17.50	— 5	59.5	26	7.47	1	57.6	22	37.33	0	66.5	24
20	7.70	8	67.8	23	17.45	9	62.1	25	7.48	— 2	59.8	20	37.33	4	68.9	23
30	7.62	11	70.1	21	17.36	14	64.6	23	7.46	5	61.8	19	37.29	7	71.2	21
Juni 9	7.51	14	72.2	18	17.22	17	66.9	19	7.41	7	63.7	17	37.22	10	73.3	18
19	7.37	18	74.0	14	17.05	20	68.8	15	7.34	10	65.4	14	37.12	12	75.1	15
29	7.19	19	75.4	10	16.85	24	70.3	11	7.24	12	66.8	12	37.00	15	76.6	12
Juli 9	7.00	21	76.4	6	16.61	25	71.4	6	7.12	14	68.0	8	36.85	17	77.8	8
19	6.79	23	77.0	2	16.36	27	72.0	2	6.98	16	68.8	5	36.68	19	78.6	4
29	6.56	22	77.2	— 3	16.09	27	72.2	4	6.82	16	69.3	0	36.49	19	79.0	0
Aug. 8	6.34	23	76.9	8	15.82	28	71.8	8	6.66	17	69.3	2	36.30	19	79.0	4
18	6.11	22	76.1	12	15.54	26	71.0	13	6.49	17	69.1	7	36.11	20	78.6	8
28	5.89	20	74.9	17	15.28	25	69.7	17	6.32	15	68.4	10	35.91	18	77.8	13
Sept. 7	5.69	18	73.2	20	15.03	22	68.0	22	6.17	14	67.4	13	35.73	16	76.5	17
17	5.51	14	71.2	24	14.81	18	65.8	25	6.03	11	66.1	18	35.57	13	74.8	20
27	5.37	9	68.8	28	14.63	13	63.3	30	5.92	7	64.3	20	35.44	9	72.8	24
Okt. 7	5.28	5	66.0	30	14.50	8	60.3	32	5.85	4	62.3	24	35.35	5	70.4	27
17	5.23	— 1	63.0	33	14.42	2	57.1	34	5.81	— 1	59.9	26	35.30	0	67.7	29
27	5.24	8	59.7	39	14.40	— 5	53.7	40	5.82	8	57.3	32	35.30	6	64.8	35
Nov. 6	[29] 5.32	13	55.8	36	[31] 14.45	12	49.7	38	[1] 5.90	12	54.1	30	[2] 35.36	12	61.3	34
16	5.45	21	52.2	35	14.57	20	45.9	37	6.02	17	51.1	31	35.48	17	57.9	34
26	5.66	26	48.7	35	14.77	26	42.2	36	6.19	23	48.0	31	35.65	24	54.5	33
Dez. 6	5.92	32	45.2	33	15.03	33	38.6	33	6.42	27	44.9	31	35.89	28	51.2	33
16	6.24	36	41.9	29	15.36	37	35.3	31	6.69	31	41.8	29	36.17	32	47.9	30
26	6.60	39	39.0	26	15.73	41	32.2	26	7.00	33	38.9	26	36.49	35	44.9	27
36	6.99		36.4		16.14		29.6		7.33		36.3		36.84		42.2	
Mittl. Ort	4.64		74.6		14.13		69.0		4.85		70.2		34.52		78.1	
sec δ, tg δ	1.452		+1.053		1.633		+1.292		1.164		+0.595		1.281		+0.801	

1913	537) η Centauri. AR.	Δ	Dekl. −	Δ	538) α² Centauri*). AR.	Δ	Dekl. −	Δ	542) α Apodis. AR.	Δ	Dekl. −	Δ	543) ζ Bootis m. AR.	Δ	Dekl. +	Δ
	14h 29m		41° 46′		14h 33m		60° 28′		14h 36m		78° 40′		14h 36m		14° 5′	
Jan. 0	57.21	43	28.3	9	39.31	59	19.7	4	54.00	131	23.6	3	58.94	32	52.8	23
10	57.64	43	29.2	12	39.90	59	20.1	8	55.31	134	23.3	2	59.26	33	50.5	21
20	58.07	42	30.4	16	40.49	58	20.9	13	56.65	136	23.5	8	59.59	34	48.4	18
30	58.49	41	32.0	18	41.07	57	22.2	17	58.01	133	24.3	14	59.93	32	46.6	15
Febr. 9	58.90	39	33.8	20	41.64	54	23.9	21	59.34	128	25.7	18	60.25	31	45.1	10
19	59.29	36	35.8	21	42.18	49	26.0	23	60.62	119	27.5	22	60.56	29	44.1	7
März 1	59.65	33	37.9	22	42.67	44	28.3	26	61.81	109	29.7	27	60.85	26	43.4	2
11	59.98	29	40.1	21	43.11	39	30.9	27	62.90	97	32.4	29	61.11	23	43.2	2
21	60.27	25	42.2	22	43.50	34	33.6	28	63.87	84	35.3	31	61.34	20	43.4	5
31	60.52	21	44.4	22	43.84	28	36.4	29	64.71	69	38.4	33	61.54	16	43.9	9
April 10	60.73	18	46.6	20	44.12	21	39.3	29	65.40	53	41.7	35	61.70	13	44.8	10
20	60.91	13	48.6	20	44.33	15	42.2	28	65.93	37	45.2	34	61.83	11	45.8	13
30	61.04	10	50.6	19	44.48	10	45.0	27	66.30	20	48.6	34	61.94	7	47.1	14
Mai 10	61.14	6	52.5	16	44.58	3	47.7	25	66.50	4	52.0	33	62.01	4	48.5	14
20	61.20	2	54.1	15	44.61	3	50.2	23	66.54	12	55.3	31	62.05	1	49.9	15
30	61.22	2	55.6	13	44.58	9	52.5	21	66.42	29	58.4	28	62.06	1	51.4	14
Juni 9	61.20	5	56.9	10	44.49	14	54.6	18	66.13	44	61.2	26	62.05	4	52.8	13
19	61.15	8	57.9	9	44.35	19	56.4	14	65.69	58	63.8	21	62.01	6	54.1	11
29	61.07	12	58.8	5	44.16	24	57.8	10	65.11	70	65.9	17	61.95	9	55.2	10
Juli 9	60.95	14	59.3	2	43.92	28	58.8	7	64.41	79	67.6	12	61.86	10	56.2	8
19	60.81	16	59.5	1	43.64	31	59.5	2	63.62	88	68.8	8	61.76	12	57.0	6
29	60.65	18	59.4	4	43.33	33	59.7	2	62.74	92	69.6	1	61.64	13	57.6	3
Aug. 8	60.47	19	59.0	6	43.00	33	59.5	7	61.82	92	69.7	4	61.51	14	57.9	1
18	60.28	18	58.4	10	42.67	32	58.8	11	60.90	91	69.3	9	61.37	14	58.0	1
28	60.10	17	57.4	11	42.35	29	57.7	15	59.99	83	68.4	14	61.23	13	57.9	4
Sept. 7	59.93	14	56.3	14	42.06	26	56.2	18	59.16	75	67.0	18	61.10	11	57.5	7
17	59.79	11	54.9	14	41.80	20	54.4	21	58.41	60	65.2	23	60.99	9	56.8	10
27	59.68	7	53.5	16	41.60	13	52.3	22	57.81	44	62.9	26	60.90	6	55.8	12
Okt. 7	59.61	1	51.9	15	41.47	5	50.1	23	57.37	24	60.3	28	60.84	3	54.6	15
17	59.60	4	50.4	15	41.42	4	47.8	24	57.13	3	57.5	29	60.81	2	53.1	18
27	59.64	12	48.9	14	41.46	15	45.4	24	57.10	23	54.6	32	60.83	7	51.3	22
Nov. 6	59.76	19	47.5	11	41.61	23	43.0	20	57.33	44	51.4	27	60.90	12	49.1	23
16	59.95	24	46.4	7	41.84	33	41.0	17	57.77	66	48.7	25	61.02	17	46.8	24
26	60.19	30	45.7	4	42.17	41	39.3	13	58.43	85	46.2	21	61.19	22	44.4	25
Dez. 6	60.49	35	45.3	1	42.58	47	38.0	9	59.28	103	44.1	17	61.41	26	41.9	25
16	60.84	39	45.2	4	43.05	53	37.1	4	60.31	117	42.4	12	61.67	29	39.4	26
26	61.23	41	45.6	7	43.58	57	36.7	0	61.48	126	41.2	6	61.96	31	36.8	24
36	61.64		46.3		44.15		36.7		62.74		40.6		62.27		34.4	
Mittl. Ort	58.61		34.5		40.83		37.0		59.89		35.8		59.62		63.4	
sec δ, tg δ	1.341		−0.894		2.030		−1.766		5.096		−4.997		1.031		+0.251	

*) Ort des hellen Sterns; die jährliche Parallaxe ist bereits angebracht.

1913	545) μ Virginis. AR.	Δ	545) Dekl. −	Δ	547) 109 Virginis. AR.	Δ	547) Dekl. +	Δ	548) α Librae. AR.	Δ	548) Dekl. −	Δ	549) Gr. 2164. AR.	Δ	549) Dekl. +	Δ
	14h 38m		5° 16′		14h 41m		2° 15′		14h 46m		15° 40′		14h 49m		59° 38′	
Jan. 0	27.56	33	54.8	19	50.16	33	24.7	21	2.77	34	52.9	17	13.00	47	29.0	26
10	27.89	33	56.7	19	50.49	33	22.6	20	3.11	34	54.6	16	13.47	50	26.4	20
20	28.22	34	58.6	18	50.82	33	20.6	18	3.45	35	56.2	17	13.97	52	24.4	14
30	28.56	32	60.4	17	51.15	32	18.8	16	3.80	33	57.9	17	14.49	51	23.0	8
Febr. 9	28.88	31	62.1	14	51.47	30	17.2	12	4.13	32	59.6	16	15.00	50	22.2	1
19	29.19	29	63.5	12	51.77	29	16.0	10	4.45	30	61.2	14	15.50	48	22.1	5
März 1	29.48	26	64.7	10	52.06	26	15.0	7	4.75	27	62.6	14	15.98	42	22.6	12
11	29.74	23	65.7	7	52.32	23	14.3	3	5.02	25	64.0	11	16.40	37	23.8	17
21	29.97	20	66.4	5	52.55	20	14.0	1	5.27	22	65.1	9	16.77	31	25.5	22
31	30.17	17	66.9	2	52.75	17	13.9	2	5.49	18	66.0	8	17.08	25	27.7	26
April 10	30.34	15	67.1	0	52.92	14	14.1	5	5.67	16	66.8	6	17.33	17	30.3	28
20	30.49	11	67.1	2	53.06	11	14.6	6	5.83	13	67.4	4	17.50	10	33.1	30
30	30.60	8	66.9	3	53.17	9	15.2	8	5.96	10	67.8	3	17.60	3	36.1	30
Mai 10	30.68	6	66.6	4	53.26	5	16.0	8	6.06	7	68.1	2	17.63	4	39.1	29
20	30.74	3	66.2	5	53.31	3	16.8	9	6.13	4	68.3	0	17.59	10	42.0	28
30	30.77	0	65.7	5	53.34	0	17.7	9	6.17	2	68.3	0	17.49	16	44.8	25
Juni 9	30.77	2	65.2	5	53.34	2	18.6	9	6.19	2	68.3	1	17.33	21	47.3	22
19	30.75	5	64.7	6	53.32	5	19.5	9	6.17	4	68.2	2	17.12	26	49.5	18
29	30.70	6	64.1	6	53.27	7	20.4	7	6.13	7	68.0	2	16.86	30	51.3	14
Juli 9	30.64	9	63.5	5	53.20	9	21.1	7	6.06	9	67.8	4	16.56	33	52.7	10
19	30.55	11	63.0	5	53.11	11	21.8	5	5.97	11	67.4	4	16.23	35	53.7	3
29	30.44	12	62.5	4	53.00	13	22.3	4	5.86	12	67.0	4	15.88	37	54.0	1
Aug. 8	30.32	13	62.1	4	52.87	13	22.7	3	5.74	13	66.6	4	15.51	37	53.9	6
18	30.19	13	61.7	3	52.74	12	23.0	2	5.61	14	66.2	5	15.14	36	53.3	11
28	30.06	12	61.4	2	52.62	13	23.2	1	5.47	12	65.7	5	14.78	35	52.2	16
Sept. 7	29.94	10	61.2	1	52.49	11	23.1	2	5.35	12	65.2	5	14.43	32	50.6	20
17	29.84	8	61.1	1	52.38	9	22.9	4	5.23	9	64.7	4	14.11	29	48.6	25
27	29.76	5	61.2	3	52.29	5	22.5	7	5.14	6	64.3	3	13.82	23	46.1	29
Okt. 7	29.71	2	61.5	4	52.24	2	21.8	8	5.08	2	64.0	1	13.59	17	43.2	32
17	29.69	3	61.9	7	52.22	2	21.0	11	5.06	3	63.9	0	13.42	10	40.0	35
27	29.72	9	62.6	10	52.24	8	19.9	15	5.09	7	63.9	2	13.32	2	36.5	37
Nov. 6	29.81	13	63.6	11	52.32	12	18.4	16	5.16	14	64.1	5	13.30	7	32.8	42
16	29.94	18	64.7	14	52.44	17	16.8	17	5.30	18	64.6	7	13.37	15	28.6	38
26	30.12	23	66.1	16	52.61	22	15.1	20	5.48	23	65.3	10	13.52	24	24.8	38
Dez. 6	30.35	27	67.7	17	52.83	25	13.1	21	5.71	27	66.3	12	13.76	31	21.0	35
16	30.62	29	69.4	18	53.08	29	11.0	21	5.98	31	67.5	13	14.07	39	17.5	32
26	30.91	32	71.2	20	53.37	32	8.9	21	6.29	33	68.8	16	14.46	44	14.3	29
36	31.23		73.2		53.69		6.8		6.62		70.4		14.90		11.4	
Mittl. Ort	28.40		50.0		50.95		31.9		3.75		51.1		13.80		49.8	
sec δ, tg δ	1.004		−0.091		1.001		+0.039		1.039		−0.281		1.979		+1.708	

1913	550) β Ursae min. AR.		Dekl. +		551) P. XIV 221. AR.		Dekl. +		552) β Lupi. AR.		Dekl. −		555) β Bootis. AR.		Dekl. +	
	14h 50m		74° 30′		14h 52m		14° 47′		14h 52m		42° 46′		14h 58m		40° 43′	
Jan. 0	55.49s	77	17.7″	24	6.04s	32	39.1″	24	48.05s	42	58.1″	6	39.37s	35	41.9″	27
10	56.26	84	15.3	18	6.36	33	36.7	21	48.47	43	58.7	10	39.72	37	39.2	22
20	57.10	88	13.5	12	6.69	33	34.6	19	48.90	44	59.7	13	40.09	39	37.0	18
30	57.98	89	12.3	6	7.02	33	32.7	14	49.34	42	61.0	15	40.48	38	35.2	12
Febr. 9	58.87	87	11.7	2	7.35	31	31.3	11	49.76	41	62.5	17	40.86	37	34.0	6
19	59.74	82	11.9	8	7.66	29	30.2	7	50.17	38	64.2	19	41.23	35	33.4	0
März 1	60.56	75	12.7	14	7.95	27	29.5	2	50.55	35	66.1	20	41.58	31	33.4	6
11	61.31	64	14.1	20	8.22	24	29.3	2	50.90	32	68.1	21	41.89	29	34.0	11
21	61.95	53	16.1	24	8.46	21	29.5	5	51.22	28	70.2	21	42.18	24	35.1	16
31	62.48	39	18.5	28	8.67	18	30.0	9	51.50	25	72.3	20	42.42	20	36.7	20
April 10	62.87	25	21.3	30	8.85	14	30.9	11	51.75	21	74.3	20	42.62	16	38.7	22
20	63.12	11	24.3	31	8.99	12	32.0	14	51.96	17	76.3	20	42.78	12	40.9	25
30	63.23	3	27.4	31	9.11	8	33.4	14	52.13	13	78.3	18	42.90	7	43.4	26
Mai 10	63.20	17	30.5	30	9.19	6	34.8	16	52.26	9	80.1	18	42.97	3	46.0	26
20	63.03	30	33.5	28	9.25	3	36.4	15	52.35	5	81.9	15	43.00	1	48.6	25
30	62.73	41	36.3	26	9.28	0	37.9	15	52.40	1	83.4	14	42.99	5	51.1	24
Juni 9	62.32	52	38.9	21	9.28	3	39.4	14	52.41	3	84.8	12	42.94	9	53.5	21
19	61.80	60	41.0	17	9.25	6	40.8	12	52.38	7	86.0	10	42.85	11	55.6	18
29	61.20	68	42.7	12	9.19	8	42.0	11	52.31	10	87.0	7	42.74	15	57.4	15
Juli 9	60.52	73	43.9	8	9.11	10	43.1	8	52.21	13	87.7	4	42.59	17	58.9	11
19	59.79	76	44.7	2	9.01	12	43.9	7	52.08	16	88.1	1	42.42	19	60.0	6
29	59.03	79	44.9	3	8.89	13	44.6	4	51.92	18	88.2	2	42.23	21	60.6	3
Aug. 8	58.24	79	44.6	9	8.76	14	45.0	1	51.74	20	88.0	5	42.02	22	60.9	2
18	57.45	78	43.7	14	8.62	15	45.1	1	51.54	19	87.5	7	41.80	22	60.7	6
28	56.67	73	42.3	18	8.47	14	45.0	3	51.35	19	86.8	10	41.58	21	60.1	11
Sept. 7	55.94	68	40.5	23	8.33	12	44.7	7	51.16	16	85.8	12	41.37	19	59.0	14
17	55.26	61	38.2	28	8.21	11	44.0	9	51.00	14	84.6	15	41.18	17	57.6	19
27	54.65	51	35.4	31	8.10	7	43.1	12	50.86	9	83.1	15	41.01	14	55.7	23
Okt. 7	54.14	41	32.3	34	8.03	4	41.9	15	50.77	5	81.6	15	40.87	9	53.4	26
17	53.73	28	28.9	36	7.99	0	40.4	18	50.72	2	80.1	15	40.78	5	50.8	29
27	53.45	15	25.3	39	7.99	5	38.6	20	50.74	9	78.6	14	40.73	2	47.9	31
Nov. 6	53.30	2	21.4	43	8.04	11	36.6	24	50.83	17	77.2	13	40.75	8	44.8	37
16	[7] 53.32	17	17.1	38	[8] 8.15	15	34.2	25	[8] 51.00	21	75.9	10	[9] 40.83	13	41.1	34
26	53.49	32	13.3	38	8.30	21	31.7	25	51.21	28	74.9	6	40.96	20	37.7	35
Dez. 6	53.81	47	9.5	35	8.51	24	29.2	26	51.49	34	74.3	3	41.16	25	34.2	34
16	54.28	60	6.0	31	8.75	28	26.6	25	51.83	37	74.0	1	41.41	30	30.8	32
26	54.88	71	2.9	26	9.03	30	24.1	24	52.20	41	74.1	5	41.71	33	27.6	29
36	55.59		0.3		9.33		21.7		52.61		74.6		42.04		24.7	
Mittl. Ort	56.79		39.9		6.81		50.1		49.60		63.2		40.13		59.4	
sec δ, tg δ	3.744		+3.609		1.033		+0.264		1.362		−0.925		1.320		+0.861	

1913	556) γ Scorpii. AR.		Dekl. −		557) ψ Bootis. AR.		Dekl. +		558) ζ Lupi. AR.		Dekl. −		560) γ Triang.austr. AR.		Dekl. −	
	$14^h\ 58^m$		24° 56′		$15^h\ 0^m$		27° 16′		$15^h\ 5^m$		51° 46′		$15^h\ 10^m$		68° 21′	
Jan. 0	57.29	35	26.5	13	42.28	32	56.3	26	59.61	48	1.6	2	42.82	73	24.3	5
10	57.64	36	27.8	14	42.60	34	53.7	23	60.09	49	1.8	5	43.55	75	23.8	0
20	58.00	36	29.2	15	42.94	34	51.4	19	60.58	49	2.3	10	44.30	78	23.8	5
30	58.36	36	30.7	15	43.28	35	49.5	13	61.07	50	3.3	13	45.08	77	24.3	10
Febr. 9	58.72	34	32.2	16	43.63	33	48.2	9	61.57	47	4.6	15	45.85	75	25.3	13
19	59.06	32	33.8	16	43.96	31	47.3	3	62.04	45	6.1	18	46.60	72	26.6	18
März 1	59.38	30	35.4	15	44.27	29	47.0	1	62.49	42	7.9	20	47.32	68	28.4	22
11	59.68	27	36.9	14	44.56	25	47.1	7	62.91	39	9.9	22	48.00	62	30.6	24
21	59.95	24	38.3	13	44.81	23	47.8	10	63.30	35	12.1	23	48.62	55	33.0	26
31	60.19	21	39.6	12	45.04	19	48.8	15	63.65	30	14.4	23	49.17	48	35.6	28
April 10	60.40	18	40.8	11	45.23	15	50.3	17	63.95	26	16.7	24	49.65	41	38.4	29
20	60.58	15	41.9	9	45.38	12	52.0	20	64.21	21	19.1	23	50.06	32	41.3	30
30	60.73	12	42.8	8	45.50	9	54.0	20	64.42	16	21.4	23	50.38	24	44.3	30
Mai 10	60.85	8	43.6	8	45.59	5	56.0	21	64.58	12	23.7	22	50.62	16	47.3	29
20	60.93	6	44.4	5	45.64	1	58.1	21	64.70	7	25.9	20	50.78	7	50.2	28
30	60.99	3	44.9	5	45.65	1	60.2	20	64.77	1	27.9	19	50.85	2	53.0	26
Juni 9	61.02	1	45.4	3	45.64	4	62.2	18	64.78	3	29.8	16	50.83	10	55.6	24
19	61.01	4	45.7	2	45.60	8	64.0	17	64.75	8	31.4	14	50.73	19	58.0	20
29	60.97	6	45.9	1	45.52	10	65.7	13	64.67	12	32.8	11	50.54	27	60.0	16
Juli 9	60.91	9	46.0	1	45.42	12	67.0	10	64.55	17	33.9	8	50.27	33	61.6	14
19	60.82	12	45.9	2	45.30	15	68.0	8	64.38	20	34.7	4	50.94	39	63.0	9
29	60.70	13	45.7	3	45.15	16	68.8	4	64.18	22	35.1	1	49.55	44	63.9	4
Aug. 8	60.57	15	45.4	5	44.99	17	69.2	0	63.96	24	35.2	3	49.11	45	64.3	0
18	60.42	15	44.9	5	44.82	17	69.2	3	63.72	25	34.9	7	48.66	46	64.3	6
28	60.27	14	44.4	7	44.65	16	68.9	7	63.47	24	34.2	10	48.20	45	63.7	10
Sept. 7	60.13	12	43.7	7	44.49	16	68.2	10	63.23	22	33.2	13	47.75	41	62.7	15
17	60.01	11	43.0	7	44.33	13	67.2	14	63.01	18	31.9	16	47.34	35	61.2	18
27	59.90	7	42.3	8	44.20	10	65.8	17	62.83	13	30.3	17	46.99	28	59.4	22
Okt. 7	59.83	4	41.5	6	44.10	7	64.1	21	62.70	8	28.6	19	46.71	17	57.2	24
17	59.79	1	40.9	5	44.03	2	62.0	23	62.62	1	26.7	19	46.54	7	54.8	26
27	59.80	7	40.4	4	44.01	3	59.7	26	62.61	7	24.8	19	46.47	6	52.2	26
Nov. 6	59.87	14	40.0	2	44.04	9	57.1	31	62.68	16	22.9	19	46.53	21	49.6	27
16	[9] 60.01	18	39.8	1	[10] 44.13	14	54.0	30	[11] 62.84	23	21.0	15	[12] 46.74	32	46.9	23
26	60.19	23	39.9	4	44.27	19	51.0	30	63.07	30	19.5	11	47.06	43	44.6	20
Dez. 6	60.42	28	40.3	6	44.46	24	48.0	30	63.37	37	18.4	9	47.49	54	42.6	17
16	60.70	31	40.9	9	44.70	28	45.0	30	63.74	42	17.5	5	48.03	62	40.9	12
26	61.01	34	41.8	11	44.98	31	42.0	27	64.16	46	17.0	0	48.65	70	39.7	7
36	61.35		42.9		45.29		39.3		64.62		17.0		49.35		39.0	
Mittl. Ort	58.46		26.7		43.05		70.7		61.58		7.8		46.26		32.8	
sec δ, tg δ	1.103		−0.465		1.125		+0.516		1.616		−1.270		2.713		−2.521	

1913	563) δ Bootis. AR.		Dekl. +		564) β Librae. AR.		Dekl. −		565) ι H. Urs. min. AR.		Dekl. +		566) φ^1 Lupi. AR.		Dekl. −	
	$15^h\,11^m$		33° 37′		$15^h\,12^m$		9° 3′		$15^h\,13^m$		67° 39′		$15^h\,16^m$		35° 56′	
Jan. 0	58.87	33	63.8	27	18.36	32	50.1	17	36.75	54	75.8	28	15.37	38	45.3	7
10	59.20	34	61.1	23	18.68	33	51.8	17	37.29	60	73.0	22	15.75	39	46.0	9
20	59.54	36	58.8	19	19.01	33	53.5	16	37.89	63	70.8	16	16.14	39	46.9	11
30	59.90	36	56.9	14	19.34	33	55.1	16	38.52	65	69.2	10	16.53	40	48.0	14
Febr. 9	60.26	35	55.5	8	19.67	32	56.7	14	39.17	64	68.2	3	16.93	38	49.4	15
19	60.61	33	54.7	3	19.99	31	58.1	12	39.81	62	67.9	4	17.31	37	50.9	15
März 1	60.94	30	54.4	3	20.30	28	59.3	10	40.43	57	68.3	11	17.68	34	52.4	17
11	61.24	28	54.7	8	20.58	26	60.3	7	41.00	51	69.4	16	18.02	31	54.1	16
21	61.52	24	55.5	13	20.84	23	61.0	6	41.51	44	71.0	22	18.33	29	55.7	17
31	61.76	20	56.8	17	21.07	20	61.6	3	41.95	34	73.2	25	18.62	25	57.4	16
April 10	61.96	17	58.5	20	21.27	18	61.9	1	42.29	26	75.7	29	18.87	22	59.0	15
20	62.13	13	60.5	22	21.45	15	62.0	0	42.55	16	78.6	30	19.09	19	60.5	15
30	62.26	10	62.7	23	21.60	12	62.0	2	42.71	6	81.6	31	19.28	15	62.0	14
Mai 10	62.36	5	65.0	24	21.72	9	61.8	2	42.77	3	84.7	32	19.43	11	63.4	13
20	62.41	2	67.4	24	21.81	7	61.6	4	42.74	12	87.9	29	19.54	8	64.7	12
30	62.43	2	69.8	22	21.88	3	61.2	4	42.62	21	90.8	28	19.62	4	65.9	11
Juni 9	62.41	5	72.0	21	21.91	0	60.8	4	42.41	29	93.6	24	19.66	1	67.0	9
19	62.36	8	74.1	18	21.91	2	60.4	5	42.12	36	96.0	20	19.67	4	67.9	7
29	62.28	11	75.9	15	21.89	5	59.9	5	41.76	41	98.0	16	19.63	6	68.6	6
Juli 9	62.17	14	77.4	12	21.84	8	59.4	4	41.35	47	99.6	11	19.57	11	69.2	3
19	62.03	16	78.6	8	21.76	10	59.0	5	40.88	50	100.7	7	19.46	13	69.5	2
29	61.87	18	79.4	5	21.66	12	58.5	4	40.38	53	101.4	1	19.33	15	69.7	1
Aug. 8	61.69	19	79.9	0	21.54	13	58.1	4	39.85	54	101.5	4	19.18	17	69.6	4
18	61.50	20	79.9	3	21.41	14	57.7	3	39.31	54	101.1	10	19.01	17	69.2	5
28	61.30	19	79.6	7	21.27	14	57.4	3	38.77	52	100.1	14	18.84	18	68.7	7
Sept. 7	61.11	17	78.9	12	21.13	12	57.1	2	38.25	49	98.7	19	18.66	16	68.0	10
17	60.94	16	77.7	15	21.01	11	56.9	1	37.76	45	96.8	24	18.50	13	67.0	10
27	60.78	13	76.2	19	20.90	8	56.8	0	37.31	40	94.4	28	18.37	11	66.0	11
Okt. 7	60.65	9	74.3	23	20.82	4	56.8	2	36.91	31	91.6	32	18.26	5	64.9	12
17	60.56	4	72.0	26	20.78	1	57.0	4	36.60	23	88.4	35	18.21	1	63.7	11
27	60.52	1	69.4	28	20.77	5	57.4	6	36.37	14	84.9	37	18.20	5	62.6	11
Nov. 6	60.53	7	66.6	34	20.82	11	58.0	9	36.23	2	81.2	42	18.25	12	61.5	9
16	[12]60.60	12	63.2	32	[13]20.93	15	58.9	10	[13]36.21	9	77.0	39	[11]18.37	18	60.6	6
26	60.72	18	60.0	33	21.08	19	59.9	12	36.30	21	73.1	38	18.55	24	60.0	4
Dez. 6	60.90	23	56.7	32	21.27	24	61.1	14	36.51	31	69.3	37	18.79	29	59.6	1
16	61.13	27	53.5	31	21.51	27	62.5	16	36.82	42	65.6	33	19.08	33	59.5	2
26	61.40	31	50.4	29	21.78	32	64.1	16	37.24	50	62.3	30	19.41	36	59.7	5
36	61.71		47.5		22.10		65.7		37.74		59.3		19.77		60.2	
Mittl. Ort	59.72		79.8		19.40		45.3		38.11		96.9		16.84		47.4	
sec δ, tg δ	1.200		+0.665		1.013		−0.160		2.633		+2.435		1.235		−0.725	

1913	569) γ Ursae min. AR.		Dekl. +		568) μ Bootis. AR.		Dekl. +		571) ι Dracon. AR.		Dekl. +		572) β Coron. bor. AR.		Dekl. +	
	15h 20m		72° 8'		15h 21m		37° 40'		15h 22m		59° 15'		15h 24m		29° 23'	
Jan. 0	49.67	62	15.6	28	11.29	32	37.6	28	58.35	42	53.8	29	13.59	31	63.1	27
10	50.29	70	12.8	22	11.61	35	34.8	24	58.77	47	50.9	24	13.90	33	60.4	24
20	50.99	75	10.6	16	11.96	37	32.4	20	59.24	49	48.5	18	14.23	35	58.0	20
30	51.74	77	9.0	10	12.33	37	30.4	14	59.73	51	46.7	12	14.58	34	56.0	14
Febr. 9	52.51	76	8.0	3	12.70	36	29.0	8	60.24	50	45.5	5	14.92	34	54.6	10
19	53.27	76	7.7	5	13.06	34	28.2	2	60.74	48	45.0	1	15.26	33	53.6	5
März 1	54.03	70	8.2	10	13.40	32	28.0	3	61.22	46	45.1	9	15.59	30	53.1	2
11	54.73	62	9.2	16	13.72	29	28.3	9	61.68	41	46.0	14	15.89	28	53.3	6
21	55.35	53	10.8	22	14.01	26	29.2	13	62.09	35	47.4	19	16.17	24	53.9	10
31	55.88	43	13.0	26	14.27	22	30.5	18	62.44	29	49.3	24	16.41	22	54.9	15
April 10	56.31	31	15.6	28	14.49	18	32.3	22	62.73	23	51.7	27	16.63	18	56.4	18
20	56.62	19	18.4	31	14.67	14	34.5	23	62.96	16	54.4	30	16.81	14	58.2	21
30	56.81	7	21.5	32	14.81	10	36.8	25	63.12	9	57.4	30	16.95	11	60.3	22
Mai 10	56.88	5	24.7	31	14.91	6	39.3	26	63.21	2	60.4	31	17.06	7	62.5	23
20	56.83	16	27.8	30	14.97	2	41.9	26	63.23	4	63.5	29	17.13	4	64.8	22
30	56.67	28	30.8	28	14.99	1	44.5	24	63.19	11	66.4	28	17.17	0	67.0	22
Juni 9	56.39	37	33.6	25	14.98	6	46.9	22	63.08	17	69.2	26	17.17	3	69.2	21
19	56.02	46	36.1	21	14.92	9	49.1	19	62.91	22	71.8	21	17.14	6	71.3	18
29	55.56	54	38.2	16	14.83	12	51.0	17	62.69	27	73.9	18	17.08	10	73.1	15
Juli 9	55.02	60	39.8	12	14.71	15	52.7	13	62.42	31	75.7	14	16.98	12	74.6	13
19	54.42	64	41.0	7	14.56	18	54.0	10	62.11	34	77.1	8	16.86	14	75.9	9
29	53.78	68	41.7	1	14.38	20	55.0	5	61.77	37	77.9	4	16.72	17	76.8	6
Aug. 8	53.10	70	41.8	3	14.18	20	55.5	1	61.40	38	78.3	2	16.55	18	77.4	3
18	52.40	70	41.5	9	13.98	22	55.6	3	61.02	38	78.1	6	16.37	18	77.7	2
28	51.70	68	40.6	14	13.76	21	55.3	8	60.64	38	77.5	12	16.19	18	77.5	5
Sept. 7	51.02	65	39.2	19	13.55	20	54.5	11	60.26	36	76.3	16	16.01	18	77.0	10
17	50.37	59	37.3	24	13.35	18	53.4	16	59.90	33	74.7	22	15.83	15	76.0	13
27	49.78	52	34.9	27	13.17	15	51.8	20	59.57	28	72.5	25	15.68	13	74.7	16
Okt. 7	49.26	43	32.2	32	13.02	11	49.8	24	59.29	23	70.0	29	15.55	9	73.1	21
17	48.83	33	29.0	34	12.91	6	47.4	26	59.06	17	67.1	33	15.46	5	71.0	23
27	48.50	21	25.6	36	12.85	2	44.8	29	58.89	9	63.8	35	15.41	0	68.7	26
Nov. 6	48.29	9	22.0	42	12.83	5	41.9	35	58.80	0	60.3	41	15.41	5	66.1	31
16	[16] 48.20	6	17.8	39	[15] 12.88	11	38.4	34	[15] 58.80	8	56.2	38	[15] 15.46	11	63.0	31
26	48.26	20	13.9	38	12.99	17	35.0	34	58.88	17	52.4	38	15.57	17	59.9	31
Dez. 6	48.46	33	10.1	37	13.16	22	31.6	33	59.05	25	48.6	37	15.74	22	56.8	31
16	48.79	46	6.4	34	13.38	27	28.3	32	59.30	32	44.9	34	15.96	25	53.7	30
26	49.25	55	3.0	30	13.65	30	25.1	30	59.62	39	41.5	31	16.21	30	50.7	28
36	49.80		0.0		13.95		22.1		60.01		38.4		16.51		47.9	
Mittl. Ort	51.43		36.8		12.21		54.3		59.55		73.9		14.51		78.1	
sec δ, tg δ	3.261		+3.104		1.264		+0.772		1.957		+1.682		1.148		+0.564	

1913	573) ν¹ Bootis. AR.	Δ	Dekl. +	Δ	575) γ Lupi. AR.	Δ	Dekl. —	Δ	577) γ Librae. AR.	Δ	Dekl. —	Δ	578) α Coron. bor. AR.	Δ	Dekl. +	Δ
	15h 27m		41° 7′		15h 29m		40° 52′		15h 30m		14° 30′		15h 30m		26° 59′	
Jan. 0	47.25s	33	27.5″	29	18.58s	39	28.0″	3	38.26s	32	4.2″	14	59.28s	30	70.3″	27
10	47.58	36	24.6	24	18.97	41	28.3	6	38.58	33	5.6	15	59.58	33	67.6	23
20	47.94	37	22.2	20	19.38	42	28.9	9	38.91	34	7.1	14	59.91	33	65.3	20
30	48.31	38	20.2	15	19.80	42	29.8	12	39.25	33	8.5	15	60.24	34	63.3	16
Febr. 9	48.69	38	18.7	8	20.22	40	31.0	13	39.58	33	10.0	13	60.58	34	61.7	10
19	49.07	35	17.9	2	20.62	40	32.3	15	39.91	32	11.3	13	60.92	32	60.7	6
März 1	49.42	34	17.7	4	21.02	37	33.8	16	40.23	30	12.6	10	61.24	30	60.1	0
11	49.76	31	18.1	9	21.39	34	35.4	16	40.53	27	13.6	9	61.54	28	60.1	5
21	50.07	27	19.0	15	21.73	32	37.0	17	40.80	25	14.5	7	61.82	24	60.6	10
31	50.34	23	20.5	19	22.05	28	38.7	17	41.05	22	15.2	5	62.06	22	61.6	14
April 10	50.57	19	22.4	22	22.33	25	40.4	18	41.27	20	15.7	3	62.28	19	63.0	17
20	50.76	15	24.6	25	22.58	22	42.2	17	41.47	17	16.0	3	62.47	15	64.7	19
30	50.91	11	27.1	26	22.80	17	43.9	16	41.64	15	16.3	1	62.62	11	66.6	21
Mai 10	51.02	6	29.7	27	22.97	14	45.5	15	41.79	11	16.4	0	62.73	9	68.7	22
20	51.08	3	32.4	26	23.11	10	47.0	15	41.90	9	16.4	1	62.82	5	70.9	22
30	51.11	2	35.0	26	23.21	6	48.5	13	41.99	5	16.3	2	62.87	1	73.1	22
Juni 9	51.09	6	37.6	23	23.27	1	49.8	12	42.04	2	16.1	2	62.88	2	75.3	20
19	51.03	10	39.9	21	23.28	3	51.0	10	42.06	1	15.9	2	62.86	5	77.3	18
29	50.93	14	42.0	17	23.25	6	52.0	8	42.05	4	15.7	2	62.81	9	79.1	15
Juli 9	50.79	16	43.7	14	23.19	11	52.8	6	42.01	7	15.5	3	62.72	11	80.6	13
19	50.63	19	45.1	10	23.08	14	53.4	3	41.94	10	15.2	3	62.61	14	81.9	10
29	50.44	21	46.1	6	22.94	16	53.7	1	41.84	12	14.9	4	62.47	15	82.9	6
Aug. 8	50.23	23	46.7	1	22.78	18	53.8	2	41.72	13	14.5	4	62.32	18	83.5	3
18	50.00	23	46.8	3	22.60	20	53.6	5	41.59	15	14.1	3	62.14	18	83.8	1
28	49.77	23	46.5	7	22.40	20	53.1	7	41.44	14	13.8	4	61.96	18	83.7	4
Sept. 7	49.54	22	45.8	12	22.20	18	52.4	9	41.30	14	13.4	3	61.78	17	83.3	8
17	49.32	19	44.6	17	22.02	16	51.5	11	41.16	12	13.1	3	61.61	15	82.5	12
27	49.13	17	42.9	20	21.86	12	50.4	13	41.04	9	12.8	2	61.46	13	81.3	15
Okt. 7	48.96	13	40.9	24	21.74	8	49.1	13	40.95	6	12.6	1	61.33	9	79.8	19
17	48.83	8	38.5	27	21.66	2	47.8	14	40.89	1	12.5	1	61.24	5	77.9	22
27	48.75	3	35.8	31	21.64	3	46.4	13	40.88	3	12.6	2	61.19	1	75.7	25
Nov. 6	48.72	3	32.7	33	21.67	10	45.1	12	40.91	8	12.8	4	61.18	4	73.2	27
16	48.75	10	29.4	37	21.77	19	43.9	10	40.99	15	13.2	7	61.22	11	70.5	32
26	[16] 48.85	16	25.7	35	[17] 21.96	23	42.9	8	[17] 41.14	19	13.9	8	[17] 61.33	16	67.3	30
Dez. 6	49.01	21	22.2	35	22.19	29	42.1	4	41.33	23	14.7	11	61.49	21	64.3	30
16	49.22	26	18.7	32	22.48	34	41.7	2	41.56	27	15.8	12	61.70	26	61.3	30
26	49.48	31	15.5	31	22.82	38	41.5	1	41.83	30	17.0	13	61.96	28	58.3	28
36	49.79		12.4		23.20		41.6		42.13		18.3		62.24		55.5	
Mittl. Ort	48.24		44.8		20.24		30.3		39.42		0.2		60.24		84.7	
sec δ, tg δ	1.328		+0.873		1.322		−0.866		1.033		−0.259		1.122		+0.510	

1913	582) α Serpentis. AR.	Diff.	582) α Serpentis. Dekl. +	Diff.	583) β Serpentis. AR.	Diff.	583) β Serpentis. Dekl. +	Diff.
	$15^h 39^m$		6° 41′		$15^h 42^m$		15° 41′	
Jan. 0	57.86		45.5		9.28		24.4	
10	58.14	28	43.3	22	9.57	29	21.9	25
20	58.46	32	41.3	20	9.88	31	19.7	22
30	58.78	32	39.5	18	10.21	33	17.7	20
Febr. 9	59.10	32	37.9	16	10.53	32	16.2	15
19	59.41	31	36.7	12	10.85	32	15.0	12
März 1	59.72	31	35.8	9	11.16	31	14.2	8
11	60.01	29	35.4	4	11.45	29	13.9	3
21	60.27	26	35.1	3	11.72	27	14.0	1
31	60.52	25	35.3	2	11.97	25	14.5	5
April 10	60.73	21	35.8	5	12.19	22	15.4	9
20	60.93	20	36.6	8	12.38	19	16.6	12
30	61.09	16	37.5	9	12.54	16	18.0	14
Mai 10	61.23	14	38.7	12	12.68	14	19.6	16
20	61.33	10	39.9	12	12.78	10	21.3	17
30	61.41	8	41.2	13	12.85	7	23.1	18
Juni 9	61.46	5	42.5	13	12.89	4	24.8	17
19	61.47	1	43.7	12	12.90	1	26.5	17
29	61.46	1	44.9	12	12.87	3	28.0	15
Juli 9	61.42	4	46.0	11	12.82	5	29.4	14
19	61.34	8	46.9	9	12.73	9	30.5	11
29	61.24	10	47.7	8	12.62	11	31.4	9
Aug. 8	61.12	12	48.3	6	12.49	13	32.1	7
18	60.99	13	48.7	4	12.34	15	32.5	4
28	60.84	15	48.9	2	12.18	16	32.7	2
Sept. 7	60.69	15	48.9	0	12.02	16	32.5	2
17	60.55	14	48.7	2	11.86	16	32.1	4
27	60.42	13	48.3	4	11.72	14	31.3	8
Okt. 7	60.31	11	47.6	7	11.61	11	30.3	10
17	60.23	8	46.6	10	11.52	9	29.0	13
27	60.20	3	45.4	12	11.47	5	27.3	17
Nov. 6	60.21	1	44.0	14	11.47	0	25.5	18
16	60.26	5	42.4	16	11.52	5	23.3	22
26	[19] 60.38	12	40.4	20	[20] 11.63	11	20.7	26
Dez. 6	60.54	16	38.3	21	11.78	15	18.2	25
16	60.75	21	36.2	21	11.98	20	15.7	25
26	61.00	25	34.0	22	12.22	24	13.1	26
36	61.27	27	31.8	22	12.49	27	10.6	25
Mittl. Ort	58.89		55.2		10.31		36.2	
sec δ, tg δ	1.007		+0.117		1.039		+0.281	

1913	584) κ Serpentis. AR.	Diff.	584) κ Serpentis. Dekl. +	Diff.	585) μ Serpentis. AR.	Diff.	585) μ Serpentis. Dekl. —	Diff.
	$15^h 44^m$		18° 24′		$15^h 45^m$		3° 9′	
Jan. 0	48.36		21.9		3.57		60.3	
10	48.65	29	19.4	25	3.87	30	62.1	18
20	48.95	30	17.1	23	4.18	31	63.9	18
30	49.28	33	15.1	20	4.50	32	65.5	16
Febr. 9	49.60	32	13.5	16	4.82	32	67.0	15
19	49.92	32	12.3	12	5.14	32	68.3	13
März 1	50.23	31	11.6	7	5.45	31	69.3	10
11	50.53	30	11.3	3	5.74	29	70.1	8
21	50.80	27	11.5	2	6.01	27	70.5	4
31	51.05	25	12.1	6	6.26	25	70.7	2
April 10	51.27	22	13.1	10	6.49	23	70.6	1
20	51.47	20	14.4	13	6.69	20	70.4	2
30	51.63	16	16.0	16	6.86	17	69.9	5
Mai 10	51.77	14	17.8	18	7.01	15	69.3	6
20	51.87	10	19.6	18	7.13	12	68.6	7
30	51.94	7	21.5	19	7.22	9	67.9	7
Juni 9	51.98	4	23.3	18	7.28	6	67.1	8
19	51.98	0	25.1	18	7.31	3	66.3	8
29	51.96	2	26.7	16	7.30	1	65.5	8
Juli 9	51.90	6	28.2	15	7.27	3	64.8	7
19	51.81	9	29.4	12	7.20	7	64.1	7
29	51.70	11	30.4	10	7.11	9	63.5	6
Aug. 8	51.56	14	31.1	7	7.00	11	63.0	5
18	51.41	15	31.5	4	6.87	13	62.6	4
28	51.24	17	31.7	2	6.72	15	62.3	3
Sept. 7	51.08	16	31.5	2	6.57	15	62.2	1
17	50.92	16	31.0	5	6.43	14	62.1	1
27	50.77	15	30.1	9	6.31	12	62.2	1
Okt. 7	50.65	12	29.0	11	6.21	10	62.5	3
17	50.55	10	27.6	14	6.13	8	63.0	5
27	50.50	5	25.8	18	6.10	3	63.6	6
Nov. 6	50.49	1	23.8	20	6.11	1	64.5	9
16	50.53	4	21.5	23	6.17	6	65.5	10
26	[20] 50.64	11	18.8	27	[20] 6.29	12	66.9	14
Dez. 6	50.79	15	16.2	26	6.46	17	68.4	15
16	50.98	19	13.5	27	6.66	20	70.0	16
26	51.22	24	10.8	27	6.91	25	71.7	17
36	51.49	27	8.3	25	7.19	28	73.5	18
Mittl. Ort	49.39		34.4		4.69		53.0	
sec δ, tg δ	1.054		+0.332		1.002		−0.055	

1913	588) ε Serpentis. AR.	Δ	Dekl. +	Δ	590) ζ Ursae min. AR.	Δ	Dekl. +	Δ	589) β Triang. aust. AR.	Δ	Dekl. −	Δ	593) ε Coron. bor. AR.	Δ	Dekl. +	Δ
	$15^h 46^m$		4° 43′		$15^h 47^m$		78° 3′		$15^h 47^m$		63° 9′		$15^h 53^m$		27° 7′	
Jan. 0	27.60	29	70.7	21	5.11	75	24.9	30	24.96	58	42.4	8	58.01	28	30.7	28
10	27.89	31	68.6	20	5.86	90	21.9	24	25.54	61	41.6	3	58.29	31	27.9	25
20	28.20	32	66.6	18	6.76	101	19.5	18	26.15	65	41.3	1	58.60	33	25.4	21
30	28.52	32	64.8	15	7.77	107	17.7	12	26.80	65	41.4	5	58.93	34	23.3	16
Febr. 9	28.84	31	63.3	13	8.84	110	16.5	6	27.45	65	41.9	9	59.27	33	21.7	12
19	29.15	31	62.0	9	9.94	109	15.9	2	28.10	63	42.8	12	59.60	32	20.5	7
März 1	29.46	29	61.1	6	11.03	103	16.1	8	28.73	60	44.0	16	59.92	31	19.8	0
11	29.75	27	60.5	2	12.06	95	16.9	14	29.33	57	45.6	18	60.23	29	19.8	4
21	30.02	25	60.3	1	13.01	84	18.3	19	29.90	52	47.4	22	60.52	27	20.2	8
31	30.27	22	60.4	5	13.85	68	20.2	25	30.42	48	49.6	24	60.79	23	21.0	13
April 10	30.49	20	60.9	6	14.53	53	22.7	27	30.90	41	52.0	24	61.02	21	22.3	17
20	30.69	17	61.5	9	15.06	35	25.4	31	31.31	36	54.4	25	61.23	17	24.0	19
30	30.86	14	62.4	11	15.41	17	28.5	31	31.67	29	56.9	27	61.40	14	25.9	22
Mai 10	31.00	12	63.5	11	15.58	1	31.6	32	31.96	23	59.6	26	61.54	11	28.1	23
20	31.12	9	64.6	12	15.57	20	34.8	31	32.19	15	62.2	25	61.65	7	30.4	22
30	31.21	5	65.8	12	15.37	36	37.9	29	32.34	8	64.7	25	61.72	3	32.6	23
Juni 9	31.26	2	67.0	12	15.01	53	40.8	26	32.42	0	67.2	23	61.75	0	34.9	21
19	31.28	1	68.2	12	14.48	68	43.4	22	32.42	7	69.5	20	61.75	3	37.0	20
29	31.27	4	69.4	10	13.80	81	45.6	20	32.35	14	71.5	18	61.72	8	39.0	17
Juli 9	31.23	7	70.4	9	12.99	91	47.6	15	32.21	21	73.3	15	61.64	10	40.7	14
19	31.16	9	71.3	7	12.08	99	49.1	10	32.00	27	74.8	12	61.54	13	42.1	12
29	31.07	12	72.0	6	11.09	106	50.1	5	31.73	31	76.0	7	61.41	15	43.3	8
Aug. 8	30.95	14	72.6	4	10.03	109	50.6	1	31.42	35	76.7	2	61.26	18	44.1	5
18	30.81	14	73.0	3	8.94	111	50.5	6	31.07	38	76.9	1	61.08	18	44.6	1
28	30.67	15	73.3	1	7.83	110	49.9	10	30.69	36	76.8	6	60.90	19	44.7	2
Sept. 7	30.52	15	73.4	2	6.73	107	48.9	16	30.33	35	76.2	10	60.71	18	44.5	6
17	30.37	13	73.2	4	5.66	100	47.3	20	29.98	32	75.2	14	60.53	17	43.9	10
27	30.24	11	72.8	6	4.66	90	45.3	25	29.66	27	73.8	18	60.36	15	42.9	14
Okt. 7	30.13	7	72.2	8	3.76	80	42.8	29	29.39	20	72.0	21	60.21	12	41.5	18
17	30.06	4	71.4	10	2.96	65	39.9	32	29.19	11	69.9	22	60.09	7	39.7	21
27	30.02	0	70.4	13	2.31	49	36.7	35	29.08	2	67.7	23	60.02	3	37.6	23
Nov. 6	30.02	5	69.1	16	1.82	31	33.2	37	29.06	8	65.4	23	59.99	2	35.3	27
16	30.07	12	67.5	19	1.51	12	29.5	42	29.14	21	63.1	25	60.01	8	32.6	31
26	[21] 30.19	16	65.6	19	[21] 1.39	11	25.3	37	[21] 29.35	31	60.6	20	[23] 60.09	13	29.5	30
Dez. 6	30.35	20	63.7	20	1.50	30	21.6	37	29.66	40	58.6	18	60.22	18	26.5	30
16	30.55	24	61.7	21	1.80	50	17.9	35	30.06	48	56.8	13	60.40	23	23.5	30
26	30.79	27	59.6	21	2.30	68	14.4	31	30.54	55	55.5	10	60.63	27	20.5	28
36	31.06		57.5		2.98		11.3		31.09		54.5		60.90		17.7	
Mittl. Ort	28.68		80.0		8.39		45.4		27.98		47.3		59.09		45.0	
sec δ, tg δ	1.003		+0.083		4.835		+4.730		2.216		−1.977		1.123		+0.512	

1913	594) δ Scorpii. AR.		Dekl. −		598) ϑ Draconis. AR.		Dekl. +		597) β Scorpii. AR.		Dekl. −		603) δ Ophiuchi. AR.		Dekl. −	
	15h 55m		22° 22′		16h 0m		58° 47′		16h 0m		19° 34′		16h 9m		3° 28′	
Jan. 0	9.82		33.1		13.83		31.5		21.19		9.4		45.88		23.9	
10	10.14	32	34.0	9	14.19	36	28.4	31	21.50	31	10.4	10	46.16	28	25.6	17
20	10.47	33	35.1	11	14.61	42	25.7	27	21.83	33	11.5	11	46.46	30	27.3	17
30	10.82	35	36.2	11	15.07	46	23.5	22	22.17	34	12.7	12	46.77	31	28.9	16
Febr. 9	11.17	35	37.4	12	15.55	48	21.8	17	22.51	34	13.9	12	47.09	32	30.3	14
19	11.51	34	38.6	12	16.04	49	20.9	9	22.85	34	15.0	11	47.41	32	31.5	12
März 1	11.85	34	39.7	11	16.53	49	20.7	2	23.18	33	16.1	11	47.72	31	32.5	10
11	12.17	32	40.8	11	16.99	46	21.1	4	23.50	32	17.1	10	48.02	30	33.2	7
21	12.47	30	41.7	9	17.43	44	22.1	10	23.80	30	18.0	9	48.30	28	33.6	4
31	12.75	28	42.6	9	17.82	39	23.7	16	24.08	28	18.7	7	48.57	27	33.7	1
April 10	13.01	26	43.3	7	18.16	34	25.9	22	24.33	25	19.3	6	48.82	25	33.6	1
20	13.24	23	44.0	7	18.44	28	28.4	25	24.56	23	19.8	5	49.04	22	33.3	3
30	13.44	20	44.5	5	18.66	22	31.3	29	24.77	21	20.2	4	49.23	19	32.8	5
Mai 10	13.62	18	45.0	5	18.81	15	34.3	30	24.95	18	20.5	3	49.40	17	32.2	6
20	13.77	15	45.4	4	18.90	9	37.5	32	25.09	14	20.7	2	49.54	14	31.4	8
30	13.88	11	45.7	3	18.92	2	40.6	31	25.21	12	20.9	2	49.66	12	30.6	8
Juni 9	13.96	8	46.0	3	18.87	5	43.6	30	25.29	8	20.9	0	49.74	8	29.7	9
19	14.00	4	46.2	2	18.76	11	46.5	29	25.34	5	21.0	1	49.79	5	28.9	8
29	14.01	1	46.4	2	18.58	18	49.0	25	25.36	2	21.0	0	49.80	1	28.1	8
Juli 9	13.99	2	46.4	0	18.35	23	51.2	22	25.34	2	21.0	0	49.78	2	27.3	8
19	13.93	6	46.4	0	18.07	28	53.0	18	25.28	6	20.9	1	49.73	5	26.6	7
29	13.84	9	46.4	0	17.75	32	54.4	14	25.19	9	20.8	1	49.65	8	26.0	6
Aug. 8	13.72	12	46.3	1	17.40	35	55.3	9	25.08	11	20.6	2	49.55	10	25.5	5
18	13.58	14	46.0	3	17.02	38	55.7	4	24.95	13	20.4	2	49.42	13	25.1	4
28	13.43	15	45.7	3	16.62	40	55.6	1	24.80	15	20.1	3	49.27	15	24.9	2
Sept. 7	13.27	16	45.3	4	16.22	40	54.9	7	24.64	16	19.7	4	49.12	15	24.7	2
17	13.12	15	44.9	4	15.83	39	53.8	11	24.49	15	19.4	3	48.97	15	24.6	1
27	12.98	14	44.4	5	15.46	37	52.1	17	24.35	14	19.0	4	48.83	14	24.6	0
Okt. 7	12.87	11	44.0	4	15.13	33	50.0	21	24.24	11	18.6	4	48.71	12	24.9	3
17	12.79	8	43.5	5	14.85	28	47.5	25	24.15	9	18.3	3	48.62	9	25.3	4
27	12.75	4	43.2	3	14.62	23	44.5	30	24.11	4	18.1	2	48.57	5	25.9	6
Nov. 6	12.76	1	42.9	3	14.46	16	41.3	32	24.12	1	17.9	2	48.56	1	26.7	8
16	12.82	6	42.8	1	14.37	9	37.8	35	24.17	5	18.0	1	48.59	3	27.6	9
26	[23] 12.95	13	42.8	0	[21] 14.38	1	33.7	41	[21] 24.29	12	18.2	2	48.68	9	28.8	12
Dez. 6	13.12	17	43.1	3	14.47	9	29.9	38	24.46	17	18.6	4	[26] 48.83	15	30.3	15
16	13.34	22	43.5	4	14.65	18	26.2	37	24.66	20	19.2	6	49.01	18	31.8	15
26	13.61	27	44.2	7	14.91	26	22.6	36	24.92	26	20.0	8	49.24	23	33.4	16
36	13.91	30	45.0	8	15.24	33	19.3	33	25.21	29	20.9	9	49.50	26	35.1	17
Mittl. Ort	11.18		29.9		15.43		50.4		22.53		5.3		47.09		16.0	
sec δ, tg δ	1.081		−0.412		1.931		+1.650		1.061		−0.355		1.002		−0.061	

1913	606) 19 Ursae min. AR.		606) Dekl. +		604) γ^2 Normae. AR.		604) Dekl. −		605) ε Ophiuchi. AR.		605) Dekl. −		608) τ Herculis. AR.		608) Dekl. +	
	$16^h\ 13^m$		76° 5′		$16^h\ 13^m$		49° 56′		$16^h\ 13^m$		4° 28′		$16^h\ 17^m$		46° 30′	
Jan. 0	13.83		30.0		17.25		33.8		41.75		60.3		6.08		55.3	
10	14.42	59	26.8	32	17.66	41	33.3	5	42.02	27	62.0	17	6.37	29	52.1	32
20	15.14	72	24.1	27	18.10	44	33.1	2	42.32	30	63.6	16	6.71	34	49.3	28
30	15.96	82	21.9	22	18.57	47	33.2	1	42.64	32	65.1	15	7.07	36	46.9	24
Febr. 9	16.86	90	20.4	15	19.04	47	33.6	4	42.96	32	66.5	14	7.45	38	45.1	18
19	17.80	94	19.5	9	19.52	48	34.3	7	43.28	32	67.6	11	7.84	39	43.9	12
März 1	18.76	96	19.2	3	19.99	47	35.3	10	43.59	31	68.6	10	8.23	39	43.3	6
11	19.68	92	19.7	5	20.44	45	36.5	12	43.89	30	69.3	7	8.61	38	43.3	0
21	20.56	88	20.7	10	20.88	44	37.8	13	44.18	29	69.7	4	8.97	36	44.0	7
31	21.34	78	22.4	17	21.28	40	39.3	15	44.44	26	69.9	2	9.30	33	45.2	12
April 10	22.01	67	24.6	22	21.66	38	40.9	16	44.69	25	69.8	1	9.60	30	47.0	18
20	22.56	55	27.2	26	22.00	34	42.7	18	44.92	23	69.5	3	9.85	25	49.2	22
30	22.97	41	30.2	30	22.31	31	44.5	18	45.12	20	69.1	4	10.07	22	51.8	26
Mai 10	23.22	25	33.3	31	22.57	26	46.3	18	45.29	17	68.5	6	10.23	16	54.6	28
20	23.31	9	36.5	32	22.79	22	48.2	19	45.44	15	67.8	7	10.35	12	57.5	29
30	23.25	6	39.7	32	22.96	17	50.0	18	45.56	12	67.0	8	10.42	7	60.4	29
Juni 9	23.04	21	42.8	31	23.08	12	51.8	18	45.65	9	66.2	8	10.45	3	63.4	30
19	22.68	36	45.7	29	23.14	6	53.5	17	45.70	5	65.4	8	10.42	3	66.2	28
29	22.19	49	48.3	26	23.15	1	55.1	16	45.72	2	64.6	8	10.34	8	68.7	25
Juli 9	21.58	61	50.5	22	23.11	4	56.5	14	45.70	2	63.8	8	10.22	12	71.0	23
19	20.85	73	52.4	19	23.02	9	57.7	12	45.65	5	63.2	6	10.06	16	72.9	19
29	20.04	81	53.7	13	22.88	14	58.6	9	45.57	8	62.6	6	9.86	20	74.5	16
Aug. 8	19.16	88	54.6	9	22.69	19	59.2	6	45.47	10	62.1	5	9.63	23	75.6	11
18	18.23	93	55.0	4	22.48	21	59.5	3	45.34	13	61.7	4	9.37	26	76.3	7
28	17.27	96	54.9	1	22.24	24	59.5	0	45.20	14	61.4	3	9.10	27	76.5	2
Sept. 7	16.31	96	54.3	6	21.99	25	59.1	4	45.04	16	61.2	2	8.82	28	76.2	3
17	15.36	95	53.1	12	21.75	24	58.5	6	44.89	15	61.1	1	8.54	28	75.5	7
27	14.44	92	51.4	17	21.52	23	57.5	10	44.75	14	61.1	0	8.27	27	74.2	13
Okt. 7	13.60	84	49.3	21	21.33	19	56.3	12	44.64	11	61.3	2	8.02	25	72.6	16
17	12.84	76	46.8	25	21.17	16	54.8	15	44.54	10	61.7	4	7.82	20	70.4	22
27	12.20	64	43.8	30	21.08	9	53.2	16	44.49	5	62.2	5	7.65	17	67.9	25
Nov. 6	11.68	52	40.6	32	21.05	3	51.4	18	44.47	2	62.9	7	7.54	11	65.0	29
16	11.32	36	37.0	36	21.10	5	49.7	17	44.51	4	63.8	9	7.49	5	61.9	31
26	11.13	19	33.3	37	21.22	12	48.1	16	44.59	8	64.9	11	7.50	1	58.4	35
Dez. 6	^{27}11.11	2	29.2	41	^{27}21.43	21	46.5	16	^{27}44.74	15	66.4	15	^{28}7.58	8	54.5	39
16	11.28	17	25.5	37	21.70	27	45.2	13	44.92	18	67.8	14	7.73	15	51.0	35
26	11.63	35	21.9	36	22.04	34	44.2	10	45.14	22	69.3	15	7.94	21	47.5	35
36	12.16	53	18.6	33	22.42	38	43.5	7	45.40	26	70.9	16	8.21	27	44.2	33
Mittl. Ort	17.32		49.3		19.42		34.8		42.98		52.5		7.50		72.2	
sec δ, tg δ	4.162		+4.040		1.554		−1.190		1.003		−0.078		1.453		+1.054	

1913	609) γ Herculis. AR.		Dekl. +		611) γ Apodis. AR.		Dekl. −		615) η Draconis. AR.		Dekl. +		616) α Scorpii. AR.		Dekl. −	
	$16^h 18^m$		19° 21′		$16^h 19^m$		78° 42′		$16^h 22^m$		61° 42′		$16^h 24^m$		26° 14′	
Jan. 0	$3^s.69$	27	$11''.7$	26	$57^s.01$	110	$9''.3$	18	$46^s.61$	34	$21''.2$	33	$2^s.71$	31	$27''.1$	6
10	3.96	29	9.1	23	58.11	123	7.5	13	46.95	42	17.9	29	3.02	33	27.7	7
20	4.25	30	6.8	21	59.34	131	6.2	8	47.37	46	15.0	24	3.35	34	28.4	8
30	4.55	32	4.7	17	60.65	138	5.4	3	47.83	50	12.6	18	3.69	36	29.2	8
Febr. 9	4.87	32	3.0	13	62.03	141	5.1	1	48.33	52	10.8	12	4.05	35	30.0	10
19	5.19	31	1.7	9	63.44	140	5.2	6	48.85	52	9.6	5	4.40	35	31.0	9
März 1	5.50	31	0.8	3	64.84	137	5.8	11	49.37	51	9.1	2	4.75	34	31.9	8
11	5.81	29	0.5	1	66.21	132	6.9	15	49.88	49	9.3	8	5.09	33	32.7	9
21	6.10	27	0.6	6	67.53	123	8.4	19	50.37	44	10.1	15	5.42	31	33.6	8
31	6.37	25	1.2	10	68.76	114	10.3	22	50.81	40	11.6	19	5.73	28	34.4	7
April 10	6.62	22	2.2	13	69.90	101	12.5	25	51.21	33	13.5	25	6.01	27	35.1	7
20	6.84	20	3.5	16	70.91	89	15.0	27	51.54	28	16.0	28	6.28	24	35.8	6
30	7.04	16	5.1	19	71.80	73	17.7	28	51.82	19	18.8	30	6.52	21	36.4	5
Mai 10	7.20	14	7.0	20	72.53	57	20.5	30	52.01	13	21.8	32	6.73	18	36.9	5
20	7.34	10	9.0	20	73.10	39	23.5	31	52.14	5	25.0	33	6.91	15	37.4	5
30	7.44	7	11.0	20	73.49	22	26.6	30	52.19	3	28.3	31	7.06	11	37.9	4
Juni 9	7.51	3	13.0	20	73.71	3	29.6	29	52.16	9	31.4	30	7.17	7	38.3	4
19	7.54	0	15.0	18	73.74	15	32.5	28	52.07	17	34.4	28	7.24	4	38.7	4
29	7.54	4	16.8	16	73.59	33	35.3	25	51.90	24	37.2	24	7.28	0	39.1	3
Juli 9	7.50	8	18.4	15	73.26	49	37.8	23	51.66	29	39.6	20	7.28	5	39.4	2
19	7.42	10	19.9	12	72.77	64	40.1	18	51.37	34	41.6	17	7.23	7	39.6	1
29	7.32	13	21.1	9	72.13	77	41.9	14	51.03	39	43.3	11	7.16	12	39.7	0
Aug. 8	7.19	15	22.0	7	71.36	87	43.3	10	50.64	42	44.4	7	7.04	13	39.7	0
18	7.04	17	22.7	3	70.49	92	44.3	4	50.22	44	45.1	2	6.91	16	39.7	2
28	6.87	17	23.0	1	69.57	96	44.7	2	49.78	46	45.3	4	6.75	17	39.5	3
Sept. 7	6.70	18	23.1	3	68.61	94	44.5	6	49.32	45	44.9	9	6.58	16	39.2	4
17	6.52	16	22.8	7	67.67	88	43.9	13	48.87	43	44.0	13	6.42	16	38.8	4
27	6.36	15	22.1	10	66.79	79	42.6	17	48.44	40	42.7	19	6.26	14	38.4	5
Okt. 7	6.21	12	21.1	13	66.00	65	40.9	21	48.04	36	40.8	23	6.12	10	37.9	5
17	6.09	9	19.8	16	65.35	48	38.8	24	47.68	29	38.5	28	6.02	7	37.4	6
27	6.00	4	18.2	19	64.87	28	36.4	28	47.39	23	35.7	31	5.95	2	36.8	5
Nov. 6	5.96	1	16.3	22	64.59	6	33.6	29	47.16	15	32.6	34	5.93	3	36.3	3
16	5.97	5	14.1	24	64.53	17	30.7	28	47.01	6	29.2	36	5.96	9	36.0	3
26	6.02	12	11.7	28	64.70	46	27.9	31	46.95	4	25.6	41	6.05	16	35.7	1
Dez. 6	^{28}6.14	17	8.9	26	^{20}65.16	64	24.8	27	^{29}46.99	14	21.5	38	^{30}6.21	20	35.6	1
16	6.31	20	6.3	27	65.80	83	22.1	23	47.13	22	17.7	36	6.41	25	35.7	3
26	6.51	25	3.6	26	66.63	102	19.8	20	47.35	31	14.1	34	6.66	28	36.0	4
36	6.76		1.0		67.65		17.8		47.66		10.7		6.94		36.4	
Mittl. Ort	4.88		24.3		64.26		12.9		48.59		39.4		4.22		23.3	
sec δ, tg δ	1.060		+0.351		5.107		−5.008		2.110		+1.858		1.115		−0.493	

1913	618) β Herculis. AR.		Dekl. +		619) *A* Draconis. AR.		Dekl. +		621) σ Herculis. AR.		Dekl. +		622) ζ Ophiuchi. AR.		Dekl. —	
	$16^h 26^m$		21° 40′		$16^h 28^m$		68° 56′		$16^h 31^m$		42° 36′		$16^h 32^m$		10° 23′	
Jan. 0	27.53	25	29.6	27	6.21	40	64.7	33	16.43	27	41.4	32	20.67	27	37.3	12
10	27.78	29	26.9	24	6.61	49	61.4	29	16.70	31	38.2	28	20.94	29	38.5	14
20	28.07	30	24.5	22	7.10	57	58.5	24	17.01	34	35.4	25	21.23	31	39.9	12
30	28.37	32	22.3	17	7.67	62	56.1	18	17.35	36	32.9	19	21.54	32	41.1	12
Febr. 9	28.69	32	20.6	13	8.29	65	54.3	12	17.71	37	31.0	14	21.86	32	42.3	11
19	29.01	32	19.3	9	8.94	66	53.1	5	18.08	37	29.6	8	22.18	32	43.4	9
März 1	29.33	31	18.4	3	9.60	65	52.6	2	18.45	36	28.8	1	22.50	32	44.3	7
11	29.64	29	18.1	1	10.25	62	52.8	8	18.81	34	28.7	5	22.82	29	45.0	5
21	29.93	28	18.2	6	10.87	57	53.6	15	19.15	33	29.2	11	23.11	29	45.5	3
31	30.21	26	18.8	10	11.44	50	55.1	20	19.48	29	30.3	16	23.40	26	45.8	0
April 10	30.47	22	19.8	14	11.94	43	57.1	25	19.77	26	31.9	20	23.66	25	45.8	0
20	30.69	21	21.2	18	12.37	34	59.6	28	20.03	23	33.9	24	23.91	22	45.8	3
30	30.90	17	23.0	19	12.71	24	62.4	31	20.26	18	36.3	27	24.13	19	45.5	3
Mai 10	31.07	14	24.9	21	12.95	13	65.5	32	20.44	14	39.0	29	24.32	17	45.2	5
20	31.21	11	27.0	21	13.08	4	68.7	33	20.58	9	41.9	29	24.49	14	44.7	5
30	31.32	7	29.1	22	13.12	7	72.0	32	20.67	5	44.8	29	24.63	11	44.2	5
Juni 9	31.39	4	31.3	21	13.05	16	75.2	30	20.72	0	47.7	27	24.74	7	43.7	6
19	31.43	0	33.4	20	12.89	26	78.2	28	20.72	5	50.4	26	24.81	4	43.1	5
29	31.43	4	35.4	18	12.63	34	81.0	25	20.67	9	53.0	24	24.85	0	42.6	5
Juli 9	31.39	7	37.2	15	12.29	42	83.5	21	20.58	13	55.4	20	24.85	3	42.1	4
19	31.32	10	38.7	13	11.87	49	85.6	16	20.45	17	57.4	17	24.82	7	41.7	4
29	31.22	14	40.0	10	11.38	54	87.2	12	20.28	20	59.1	13	24.75	10	41.3	4
Aug. 8	31.08	15	41.0	8	10.84	59	88.4	7	20.08	23	60.4	8	24.65	12	40.9	3
18	30.93	17	41.8	4	10.25	61	89.1	2	19.85	25	61.2	4	24.53	14	40.6	3
28	30.76	19	42.2	0	9.64	63	89.3	4	19.60	26	61.6	1	24.39	15	40.3	2
Sept. 7	30.57	18	42.2	3	9.01	63	88.9	8	19.34	26	61.5	5	24.24	16	40.1	2
17	30.39	17	41.9	6	8.38	60	88.1	14	19.08	25	61.0	10	24.08	15	39.9	1
27	30.22	16	41.3	10	7.78	56	86.7	18	18.83	24	60.0	14	23.93	13	39.8	0
Okt. 7	30.06	13	40.3	13	7.22	51	84.9	24	18.59	20	58.6	19	23.80	10	39.8	1
17	29.93	10	39.0	17	6.71	44	82.5	27	18.39	16	56.7	23	23.70	7	39.9	2
27	29.83	5	37.3	20	6.27	34	79.8	32	18.23	11	54.4	27	23.63	3	40.1	4
Nov. 6	29.78	1	35.3	22	5.93	25	76.6	34	18.12	6	51.7	29	23.60	2	40.5	5
16	29.77	5	33.1	25	5.68	13	73.2	36	18.06	0	48.8	33	23.62	7	41.0	7
26	29.82	11	30.6	29	5.55	1	69.6	41	18.06	8	45.5	37	23.69	13	41.7	10
Dez. 6	[30] 29.93	15	27.7	27	[1] 5.54	11	65.5	38	[1] 18.14	13	41.8	35	[2] 23.82	17	42.7	10
16	30.08	19	25.0	28	5.65	24	61.7	37	18.27	19	38.3	34	23.99	22	43.7	12
26	30.27	24	22.2	27	5.89	34	58.0	35	18.46	24	34.9	33	24.21	25	44.9	12
36	30.51		19.5		6.23		54.5		18.70		31.6		24.46		46.1	
Mittl. Ort	28.76		42.5		8.83		83.0		17.87		57.4		22.00		30.1	
sec δ, tg δ	1.076		+0.397		2.785		+2.599		1.359		+0.920		1.017		−0.183	

1913	625) α Triang. aust. AR.	Δ	Dekl. —	Δ	626) η Herculis. AR.	Δ	Dekl. +	Δ	627) Gr. 2377. AR.	Δ	Dekl. +	Δ	628) ε Scorpii. AR.	Δ	Dekl. —	Δ
	$16^h 39^m$		68° 52′		$16^h 39^m$		39° 4′		$16^h 43^m$		56° 55′		$16^h 44^m$		34° 8′	
Jan. 0	22.45	61	8.7	17	53.34	26	58.7	32	36.77	29	56.3	34	29.79	31	13.7	0
10	23.06	69	7.0	13	53.60	29	55.5	28	37.06	35	52.9	31	30.10	33	13.7	1
20	23.75	74	5.7	8	53.89	32	52.7	25	37.41	40	49.8	26	30.43	36	13.8	4
30	24.49	77	4.9	4	54.21	35	50.2	20	37.81	43	47.2	20	30.79	38	14.2	4
Febr. 9	25.26	80	4.5	0	54.56	35	48.2	14	38.24	45	45.2	15	31.17	37	14.6	6
19	26.06	80	4.5	4	54.91	35	46.8	9	38.69	47	43.7	7	31.54	38	15.2	7
März 1	26.86	79	4.9	7	55.26	36	45.9	2	39.16	46	43.0	2	31.92	37	15.9	7
11	27.65	76	5.6	12	55.62	33	45.7	3	39.62	44	42.8	6	32.29	36	16.6	8
21	28.41	73	6.8	15	55.95	32	46.0	10	40.06	41	43.4	12	32.65	35	17.4	8
31	29.14	68	8.3	18	56.27	29	47.0	15	40.47	38	44.6	17	33.00	32	18.2	9
April 10	29.82	62	10.1	20	56.56	26	48.5	19	40.85	33	46.3	23	33.32	30	19.1	8
20	30.44	56	12.1	23	56.82	23	50.4	23	41.18	28	48.6	26	33.62	28	19.9	9
30	31.00	48	14.4	24	57.05	19	52.7	25	41.46	22	51.2	30	33.90	24	20.8	8
Mai 10	31.48	39	16.8	26	57.24	15	55.2	28	41.68	16	54.2	31	34.14	22	21.6	9
20	31.87	32	19.4	25	57.39	10	58.0	28	41.84	9	57.3	32	34.36	18	22.5	8
30	32.19	21	21.9	27	57.49	7	60.8	28	41.93	4	60.5	32	34.54	14	23.3	9
Juni 9	32.40	12	24.6	25	57.56	2	63.6	27	41.97	4	63.7	31	34.68	10	24.2	8
19	32.52	1	27.1	25	57.58	3	66.3	26	41.93	10	66.8	29	34.78	5	25.0	8
29	32.53	8	29.6	23	57.55	7	68.9	23	41.83	16	69.7	26	34.83	1	25.8	7
Juli 9	32.45	18	31.9	20	57.48	11	71.2	21	41.67	22	72.3	23	34.84	3	26.5	6
19	32.27	27	33.9	18	57.37	15	73.3	17	41.45	26	74.6	19	34.81	7	27.1	5
29	32.00	36	35.7	13	57.22	18	75.0	14	41.19	31	76.5	14	34.74	12	27.6	4
Aug. 8	31.64	42	37.0	10	57.04	21	76.4	9	40.88	35	77.9	10	34.62	14	28.0	2
18	31.22	45	38.0	5	56.83	23	77.3	5	40.53	37	78.9	5	34.48	17	28.2	0
28	30.77	49	38.5	0	56.60	24	77.8	1	40.16	39	79.4	0	34.31	19	28.2	1
Sept. 7	30.28	49	38.5	4	56.36	25	77.9	4	39.77	38	79.4	5	34.12	18	28.1	3
17	29.79	47	38.1	10	56.11	24	77.5	9	39.39	38	78.9	11	33.94	19	27.8	5
27	29.32	42	37.1	14	55.87	22	76.6	13	39.01	36	77.8	15	33.75	16	27.3	6
Okt. 7	28.90	36	35.7	17	55.65	19	75.3	17	38.65	32	76.3	20	33.59	14	26.7	7
17	28.54	27	34.0	21	55.46	15	73.6	21	38.33	28	74.3	24	33.45	9	26.0	9
27	28.27	16	31.9	23	55.31	11	71.5	25	38.05	21	71.9	29	33.36	5	25.1	8
Nov. 6	28.11	4	29.6	25	55.20	6	69.0	29	37.84	15	69.0	32	33.31	1	24.3	9
16	28.07	8	27.1	26	55.14	0	66.1	30	37.69	7	65.8	34	33.32	7	23.4	7
26	28.15	24	24.5	28	55.14	7	63.1	36	37.62	1	62.4	40	33.39	14	22.7	7
Dez. 6	28.39	35	21.7	23	55.21	12	59.5	34	37.63	10	58.4	38	33.53	20	22.0	5
16	28.74	46	19.4	22	55.33	18	56.1	34	37.73	18	54.6	36	33.73	24	21.5	4
26	29.20	57	17.2	18	55.51	23	52.7	32	37.91	25	51.0	35	33.97	28	21.1	1
36	29.77		15.4		55.74		49.5		38.16		47.5		34.25		21.0	
Mittl. Ort	26.46		9.7		54.78		73.9		38.72		73.1		31.50		10.1	
sec δ, tg δ	2.775		−2.588		1.288		+0.812		1.833		+1.536		1.208		−0.678	

1913	629) 49 Herculis. AR.	Diff.	Dekl. +	Diff.	630) ζ^2 Scorpii. AR.	Diff.	Dekl. −	Diff.	631) ζ Arae. AR.	Diff.	Dekl. −	Diff.	633) $\varkappa$ Ophiuchi. AR.	Diff.	Dekl. +	Diff.
	$16^h\ 48^m$		15° 6′		$16^h\ 48^m$		42° 12′		$16^h\ 51^m$		55° 51′		$16^h\ 53^m$		9° 30′	
Jan. 0	5.86	24	58.2	24	25.48	33	50.3	5	22.34	42	14.9	12	31.66	23	23.4	22
10	6.10	27	55.8	22	25.81	37	49.8	3	22.76	46	13.7	9	31.89	27	21.2	21
20	6.37	29	53.6	20	26.18	39	49.5	0	23.22	49	12.8	5	32.16	28	19.1	18
30	6.66	30	51.6	17	26.57	41	49.5	2	23.71	52	12.3	3	32.44	30	17.3	16
Febr. 9	6.96	31	49.9	14	26.98	42	49.7	4	24.23	53	12.0	1	32.74	31	15.7	13
19	7.27	31	48.5	9	27.40	42	50.1	5	24.76	54	12.1	3	33.05	31	14.4	9
März 1	7.58	31	47.6	5	27.82	41	50.6	7	25.30	53	12.4	7	33.36	30	13.5	5
11	7.89	29	47.1	0	28.23	40	51.3	9	25.83	51	13.1	9	33.66	29	13.0	1
21	8.18	29	47.1	4	28.63	38	52.2	9	26.34	50	14.0	11	33.95	29	12.9	2
31	8.47	26	47.5	8	29.01	37	53.1	11	26.84	47	15.1	13	34.24	26	13.1	7
April 10	8.73	24	48.3	11	29.38	33	54.2	11	27.31	43	16.4	16	34.50	25	13.8	9
20	8.97	22	49.4	15	29.71	31	55.3	12	27.74	40	18.0	17	34.75	22	14.7	12
30	9.19	20	50.9	16	30.02	28	56.5	12	28.14	35	19.7	18	34.97	20	15.9	14
Mai 10	9.39	16	52.5	18	30.30	24	57.7	13	28.49	30	21.5	19	35.17	17	17.3	16
20	9.55	14	54.3	19	30.54	20	59.0	12	28.79	25	23.4	20	35.34	15	18.9	17
30	9.69	10	56.2	20	30.74	16	60.2	13	29.04	19	25.4	20	35.49	10	20.6	16
Juni 9	9.79	6	58.2	19	30.90	11	61.5	13	29.23	13	27.4	20	35.59	8	22.2	17
19	9.85	3	60.1	18	31.01	6	62.8	12	29.36	6	29.4	19	35.67	4	23.9	16
29	9.88	1	61.9	17	31.07	1	64.0	11	29.42	0	31.3	17	35.71	0	25.5	14
Juli 9	9.87	5	63.6	15	31.08	4	65.1	11	29.42	7	33.0	16	35.71	4	26.9	13
19	9.82	8	65.1	13	31.04	8	66.2	8	29.35	13	34.6	14	35.67	7	28.2	12
29	9.74	11	66.4	10	30.96	13	67.0	6	29.22	19	36.0	11	35.60	10	29.4	9
Aug. 8	9.63	13	67.4	8	30.83	17	67.6	5	29.03	23	37.1	8	35.50	13	30.3	7
18	9.50	16	68.2	5	30.66	19	68.1	2	28.80	27	37.9	5	35.37	14	31.0	5
28	9.34	17	68.7	2	30.47	21	68.3	1	28.53	29	38.4	0	35.23	17	31.5	3
Sept. 7	9.17	18	68.9	1	30.26	21	68.2	3	28.24	30	38.4	3	35.06	17	31.8	0
17	8.99	17	68.8	4	30.05	21	67.9	5	27.94	28	38.1	7	34.89	16	31.8	3
27	8.82	15	68.4	6	29.84	19	67.4	8	27.66	27	37.4	11	34.73	15	31.5	5
Okt. 7	8.67	14	67.8	10	29.65	15	66.6	10	27.39	23	36.3	13	34.58	13	31.0	8
17	8.53	10	66.8	13	29.50	12	65.6	12	27.16	16	35.0	16	34.45	10	30.2	10
27	8.43	6	65.5	16	29.38	5	64.4	12	27.00	10	33.4	19	34.35	6	29.2	13
Nov. 6	8.37	2	63.9	18	29.33	0	63.2	13	26.90	2	31.5	19	34.29	2	27.9	15
16	8.35	3	62.1	21	29.33	7	61.9	12	26.88	8	29.6	20	34.27	4	26.4	18
26	8.38	8	60.0	25	29.40	15	60.7	13	26.96	14	27.6	19	34.31	8	24.6	20
Dez. 6	8.46	15	57.5	24	29.55	20	59.4	10	27.10	25	25.7	19	34.39	14	22.6	23
16	8.61	18	55.1	24	29.75	26	58.4	8	27.35	31	23.8	16	34.53	18	20.3	21
26	8.79	22	52.7	24	30.01	31	57.6	6	27.66	39	22.2	14	34.71	21	18.2	22
36	9.01		50.3		30.32		57.0		28.05		20.8		34.92		16.0	
Mittl. Ort	7.16		70.0		27.41		47.6		24.93		13.7		32.97		34.2	
sec δ, tg δ	1.036		+0.270		1.350		−0.907		1.782		−1.475		1.014		+0.167	

1913	634) ε Herculis. AR.		Dekl. +		637) η Ophiuchi. AR.		Dekl. —		639) ζ Draconis. AR.		Dekl. +		640) α Herculis. AR.		Dekl. +	
	16h 56m		31° 2′		17h 5m		15° 37′		17h 8m		65° 48′		17h 10m		14° 28′	
Jan. 0	56.21 s	23	60.2 ″	29	21.77 s	25	12.3 ″	9	29.14 s	27	62.3 ″	35	39.42 s	22	67.9 ″	23
10	56.44	27	57.3	28	22.02	28	13.2	9	29.41	37	58.8	31	39.64	25	65.6	23
20	56.71	29	54.5	24	22.30	30	14.1	9	29.78	45	55.7	28	39.89	27	63.3	20
30	57.00	31	52.1	20	22.60	32	15.0	8	30.23	50	52.9	23	40.16	30	61.3	17
Febr. 9	57.31	33	50.1	15	22.92	32	15.8	8	30.73	55	50.6	17	40.46	30	59.6	13
19	57.64	33	48.6	10	23.24	33	16.6	7	31.28	58	48.9	10	40.76	31	58.3	10
März 1	57.97	33	47.6	4	23.57	32	17.3	6	31.86	58	47.9	3	41.07	30	57.3	5
11	58.30	32	47.2	1	23.89	31	17.9	3	32.44	58	47.6	3	41.37	30	56.8	1
21	58.62	30	47.3	7	24.20	31	18.2	3	33.02	54	47.9	10	41.67	30	56.7	3
31	58.92	29	48.0	12	24.51	29	18.5	1	33.56	51	48.9	16	41.97	27	57.0	8
April 10	59.21	26	49.2	17	24.80	27	18.6	1	34.07	45	50.5	22	42.24	26	57.8	11
20	59.47	23	50.9	20	25.07	25	18.5	1	34.52	38	52.7	25	42.50	24	58.9	14
30	59.70	21	52.9	23	25.32	23	18.4	2	34.90	30	55.2	29	42.74	21	60.3	17
Mai 10	59.91	17	55.2	24	25.55	21	18.2	3	35.20	22	58.1	32	42.95	18	62.0	18
20	60.08	13	57.6	26	25.76	18	17.9	3	35.42	14	61.3	33	43.13	16	63.8	20
30	60.21	9	60.2	27	25.94	14	17.6	4	35.56	5	64.6	33	43.29	12	65.8	20
Juni 9	60.30	5	62.9	25	26.08	11	17.2	3	35.61	4	67.9	33	43.41	8	67.8	19
19	60.35	1	65.4	25	26.19	7	16.9	3	35.57	14	71.2	31	43.49	5	69.7	19
29	60.36	3	67.9	23	26.26	3	16.6	3	35.43	21	74.3	28	43.54	1	71.6	17
Juli 9	60.33	7	70.2	20	26.29	1	16.3	2	35.22	30	77.1	26	43.55	3	73.3	16
19	60.26	11	72.2	17	26.28	5	16.1	2	34.92	36	79.7	22	43.52	6	74.9	14
29	60.15	15	73.9	14	26.23	8	15.9	2	34.56	43	81.9	17	43.46	10	76.3	12
Aug. 8	60.00	17	75.3	11	26.15	11	15.7	2	34.13	48	83.6	13	43.36	13	77.5	9
18	59.83	19	76.4	6	26.04	14	15.5	2	33.65	52	84.9	8	43.23	15	78.4	6
28	59.64	21	77.0	3	25.90	15	15.3	1	33.13	54	85.7	3	43.08	17	79.0	3
Sept. 7	59.43	22	77.3	2	25.75	16	15.2	2	32.59	56	86.0	2	42.91	17	79.3	1
17	59.21	21	77.1	5	25.59	16	15.0	1	32.03	55	85.8	7	42.74	18	79.4	3
27	59.00	20	76.6	10	25.43	15	14.9	1	31.48	53	85.1	13	42.56	17	79.1	5
Okt. 7	58.80	18	75.6	14	25.28	12	14.8	1	30.95	49	83.8	17	42.39	14	78.6	8
17	58.62	14	74.2	17	25.16	10	14.7	0	30.46	44	82.1	23	42.25	12	77.8	12
27	58.48	10	72.5	21	25.06	5	14.7	1	30.02	37	79.8	27	42.13	8	76.6	14
Nov. 6	58.38	5	70.4	25	25.01	1	14.8	1	29.65	29	77.1	30	42.05	3	75.2	17
16	58.33	0	67.9	27	25.00	4	14.9	3	29.36	19	74.1	33	42.02	1	73.5	19
26	58.33	5	65.2	29	25.04	9	15.2	5	29.17	10	70.8	36	42.03	6	71.6	22
Dez. 6	58.38	12	62.3	33	25.13	16	15.7	6	29.07	1	67.2	41	42.09	12	69.4	25
16	58.50	16	59.0	31	25.29	19	16.3	7	29.08	13	63.1	37	42.21	15	66.9	24
26	58.66	20	55.9	31	25.48	23	17.0	8	29.21	23	59.4	36	42.36	20	64.5	23
36	58.86		52.8		25.71		17.8		29.44		55.8		42.56		62.2	
Mittl. Ort	57.63		74.0		23.22		5.0		31.93		78.2		40.79		79.4	
sec δ, tg δ	1.167		+0.602		1.038		—0.279		2.441		+2.227		1.033		+0.258	

1913	641) δ Herculis. AR.	Diff.	Dekl. +	Diff.	643) π Herculis. AR.	Diff.	Dekl. +	Diff.
	$17^h 11^m$		$24° 56'$		$17^h 11^m$		$36° 53'$	
Jan. 0	26.03	22	15.4	28	59.42	22	70.0	32
10	26.25	25	12.6	26	59.64	26	66.8	29
20	26.50	28	10.0	23	59.90	29	63.9	26
30	26.78	29	7.7	20	60.19	31	61.3	21
Febr. 9	27.07	32	5.7	15	60.50	33	59.2	17
19	27.39	31	4.2	10	60.83	35	57.5	11
März 1	27.70	32	3.2	6	61.18	34	56.4	5
11	28.02	31	2.6	1	61.52	34	55.9	2
21	28.33	30	2.7	5	61.86	32	56.1	6
31	28.63	28	3.2	10	62.18	31	56.7	12
April 10	28.91	27	4.2	14	62.49	28	57.9	18
20	29.18	24	5.6	17	62.77	26	59.7	21
30	29.42	21	7.3	21	63.03	22	61.8	24
Mai 10	29.63	19	9.4	23	63.25	18	64.2	27
20	29.82	15	11.7	24	63.43	15	66.9	28
30	29.97	11	14.1	24	63.58	10	69.7	29
Juni 9	30.08	7	16.5	24	63.68	6	72.6	28
19	30.15	4	18.9	23	63.74	1	75.4	27
29	30.19	1	21.2	22	63.75	3	78.1	25
Juli 9	30.18	5	23.4	19	63.72	8	80.6	23
19	30.13	8	25.3	17	63.64	11	82.9	20
29	30.05	12	27.0	14	63.53	16	84.9	16
Aug. 8	29.93	15	28.4	11	63.37	19	86.5	13
18	29.78	17	29.5	7	63.18	21	87.8	8
28	29.61	19	30.2	4	62.97	23	88.6	4
Sept. 7	29.42	20	30.6	0	62.74	24	89.0	0
17	29.22	20	30.6	3	62.50	25	89.0	5
27	29.02	18	30.3	8	62.25	22	88.5	9
Okt. 7	28.84	17	29.5	11	62.03	21	87.6	14
17	28.67	14	28.4	14	61.82	17	86.2	17
27	28.53	10	27.0	19	61.65	14	84.5	22
Nov. 6	28.43	5	25.1	21	61.51	8	82.3	25
16	28.38	1	23.0	24	61.43	3	79.8	29
26	28.37	5	20.6	26	61.40	2	76.9	30
Dez. 6	28.42	11	18.0	31	61.42	9	73.9	36
16	11 28.53	15	14.9	28	11 61.51	14	70.3	32
26	28.68	19	12.1	28	61.65	19	67.1	32
36	28.87		9.3		61.84		63.9	
Mittl. Ort	27.46		28.1		60.99		83.8	
sec δ, tg δ	1.103		+0.465		1.250		+0.751	

1913	644) ϑ Ophiuchi. AR.	Diff.	Dekl. —	Diff.	645) β Arae. AR.	Diff.	Dekl. —	Diff.
	$17^h 16^m$		$24° 54'$		$17^h 18^m$		$55° 26'$	
Jan. 0	38.30	26	55.4	3	1.29	37	58.9	13
10	38.56	29	55.7	4	1.66	43	57.6	12
20	38.85	32	56.1	4	2.09	46	56.4	9
30	39.17	32	56.5	5	2.55	50	55.5	6
Febr. 9	39.49	34	57.0	5	3.05	52	54.9	3
19	39.83	35	57.5	5	3.57	52	54.6	0
März 1	40.18	34	58.0	4	4.09	53	54.6	2
11	40.52	34	58.4	4	4.62	52	54.8	5
21	40.86	32	58.8	3	5.14	51	55.3	8
31	41.18	32	59.1	3	5.65	49	56.1	10
April 10	41.50	30	59.4	2	6.14	46	57.1	12
20	41.80	28	59.6	2	6.60	42	58.3	14
30	42.08	25	59.8	2	7.02	39	59.7	15
Mai 10	42.33	23	60.0	1	7.41	34	61.2	17
20	42.56	20	60.1	2	7.75	29	62.9	18
30	42.76	17	60.3	2	8.04	23	64.7	19
Juni 9	42.93	12	60.5	2	8.27	17	66.6	19
19	43.05	9	60.7	2	8.44	11	68.5	19
29	43.14	4	60.9	2	8.55	3	70.4	18
Juli 9	43.18	0	61.1	2	8.58	2	72.2	17
19	43.18	4	61.3	2	8.56	10	73.9	15
29	43.14	7	61.5	2	8.46	16	75.4	13
Aug. 8	43.07	12	61.7	1	8.30	21	76.7	10
18	42.95	14	61.8	1	8.09	25	77.7	7
28	42.81	16	61.9	1	7.84	28	78.4	3
Sept. 7	42.65	17	61.8	1	7.56	29	78.7	0
17	42.48	17	61.7	2	7.27	30	78.7	5
27	42.31	16	61.5	3	6.97	28	78.2	7
Okt. 7	42.15	14	61.2	3	6.69	24	77.5	11
17	42.01	11	60.9	3	6.45	20	76.4	14
27	41.90	6	60.6	4	6.25	13	75.0	17
Nov. 6	41.84	2	60.2	3	6.12	6	73.3	18
16	41.82	3	59.9	3	6.06	2	71.5	20
26	41.85	9	59.6	2	6.08	11	69.5	19
Dez. 6	41.94	16	59.4	0	6.19	20	67.6	21
16	12 42.10	19	59.4	1	12 6.39	27	65.5	17
26	42.29	23	59.5	2	6.66	34	63.8	16
36	42.52		59.7		7.00		62.2	
Mittl. Ort	39.89		48.9		3.87		55.6	
sec δ, tg δ	1.103		—0.464		1.764		—1.453	

1913	648) δ Arae. AR.		Dekl. −		651) α Arae. AR.		Dekl. −	
	17h 23m		60° 36′		17h 25m		49° 48′	
	s		″		s		″	
Jan. 0	11.55	40	47.7	17	4.56	33	34.2	12
10	11.95	47	46.0	14	4.89	38	33.0	10
20	12.42	52	44.6	11	5.27	41	32.0	7
30	12.94	56	43.5	9	5.68	43	31.3	5
Febr. 9	13.50	58	42.6	4	6.11	46	30.8	3
19	14.08	60	42.2	2	6.57	47	30.5	0
März 1	14.68	60	42.0	1	7.04	47	30.5	2
11	15.28	60	42.1	5	7.51	47	30.7	4
21	15.88	58	42.6	7	7.98	45	31.1	6
31	16.46	56	43.3	11	8.43	44	31.7	8
April 10	17.02	53	44.4	12	8.87	41	32.5	10
20	17.55	49	45.6	16	9.28	39	33.5	11
30	18.04	44	47.2	17	9.67	36	34.6	13
Mai 10	18.48	39	48.9	18	10.03	31	35.9	13
20	18.87	34	50.7	20	10.34	28	37.2	15
30	19.21	26	52.7	21	10.62	22	38.7	16
Juni 9	19.47	19	54.8	22	10.84	17	40.3	16
19	19.66	12	57.0	21	11.01	11	41.9	16
29	19.78	4	59.1	20	11.12	5	43.5	15
Juli 9	19.82	4	61.1	19	11.17	1	45.0	14
19	19.78	12	63.0	18	11.16	6	46.4	14
29	19.66	18	64.8	15	11.10	13	47.8	11
Aug. 8	19.48	25	66.3	12	10.97	17	48.9	9
18	19.23	29	67.5	8	10.80	21	49.8	6
28	18.94	31	68.3	5	10.59	24	50.4	4
Sept. 7	18.61	35	68.8	0	10.35	25	50.8	0
17	18.26	35	68.8	4	10.10	26	50.8	3
27	17.91	33	68.4	8	9.84	24	50.5	7
Okt. 7	17.58	30	67.6	12	9.60	21	49.8	9
17	17.28	24	66.4	15	9.39	17	48.9	12
27	17.04	17	64.9	18	9.22	11	47.7	14
Nov. 6	16.87	9	63.1	20	9.11	5	46.3	15
16	16.78	0	61.1	22	9.06	1	44.8	17
26	16.78	10	58.9	22	9.07	9	43.1	16
Dez. 6	16.88	21	56.7	23	9.16	18	41.5	17
16	17.09	29	54.4	21	9.34	23	39.8	15
26	17.38	37	52.3	18	9.57	30	38.3	13
36	17.75		50.5		9.87		37.0	
Mittl. Ort	14.52		44.5		6.83		29.8	
sec δ, tg δ	2.038		−1.776		1.550		−1.184	

1913	652) λ Scorpii. AR.		Dekl. −		653) β Draconis. AR.		Dekl. +	
	17h 27m		37° 2′		17h 28m		52° 21′	
	s		″		s		″	
Jan. 0	40.09	27	34.3	5	25.91	20	41.3	35
10	40.36	32	33.8	4	26.11	27	37.8	32
20	40.68	34	33.4	2	26.38	32	34.6	29
30	41.02	36	33.2	1	26.70	36	31.7	24
Febr. 9	41.38	38	33.1	1	27.06	38	29.3	19
19	41.76	38	33.2	2	27.44	41	27.4	12
März 1	42.14	39	33.4	3	27.85	42	26.2	7
11	42.53	39	33.7	3	28.27	42	25.5	1
21	42.92	37	34.0	4	28.69	40	25.6	7
31	43.29	36	34.4	5	29.09	38	26.3	13
April 10	43.65	35	34.9	5	29.47	35	27.6	19
20	44.00	32	35.4	6	29.82	31	29.5	23
30	44.32	30	36.0	7	30.13	27	31.8	27
Mai 10	44.62	27	36.7	7	30.40	22	34.5	30
20	44.89	24	37.4	8	30.62	17	37.5	31
30	45.13	19	38.2	9	30.79	10	40.6	33
Juni 9	45.32	15	39.1	8	30.89	5	43.9	32
19	45.47	11	39.9	9	30.94	1	47.1	31
29	45.58	6	40.8	9	30.93	7	50.2	29
Juli 9	45.64	0	41.7	9	30.86	13	53.1	27
19	45.64	4	42.6	7	30.73	18	55.8	24
29	45.60	8	43.3	7	30.55	24	58.2	20
Aug. 8	45.52	13	44.0	5	30.31	27	60.2	15
18	45.39	16	44.5	3	30.04	31	61.7	11
28	45.23	18	44.8	2	29.73	33	62.8	7
Sept. 7	45.05	20	45.0	0	29.40	35	63.5	1
17	44.85	20	45.0	2	29.05	35	63.6	4
27	44.65	19	44.8	4	28.70	34	63.2	9
Okt. 7	44.46	17	44.4	6	28.36	31	62.3	13
17	44.29	12	43.8	8	28.05	28	61.0	19
27	44.17	10	43.0	8	27.77	23	59.1	23
Nov. 6	44.07	4	42.2	10	27.54	18	56.8	28
16	44.03	2	41.2	9	27.36	12	54.0	30
26	44.05	8	40.3	9	27.24	5	51.0	34
Dez. 6	44.13	16	39.4	10	27.19	3	47.6	38
16	44.29	20	38.4	7	27.22	11	43.8	36
26	44.49	25	37.7	6	27.33	17	40.2	35
36	44.74		37.1		27.50		36.7	
Mittl. Ort	41.92		28.5		27.98		55.4	
sec δ, tg δ	1.253		−0.755		1.638		+1.297	

1913	656) α Ophiuchi. AR.		Dekl. +		654) θ Scorpii. AR.		Dekl. —		658) ξ Serpentis. AR.		Dekl. —		663) ι Herculis. AR.		Dekl. +	
	$17^h 30^m$		12° 36′		$17^h 31^m$		42° 56′		$17^h 32^m$		15° 20′		$17^h 36^m$		46° 2′	
Jan. 0	52.30	21	70.2	23	1.90	29	42.0	8	34.74	23	49.0	7	58.62	19	54.1	34
10	52.51	23	67.9	21	2.19	33	41.2	7	34.97	26	49.7	8	58.81	24	50.7	32
20	52.74	26	65.8	20	2.52	37	40.5	5	35.23	28	50.5	8	59.05	28	47.5	28
30	53.00	28	63.8	17	2.89	39	40.0	3	35.51	30	51.3	7	59.33	32	44.7	24
Febr. 9	53.28	29	62.1	13	3.28	41	39.7	2	35.81	31	52.0	6	59.65	35	42.3	19
19	53.57	31	60.8	10	3.69	41	39.5	0	36.12	32	52.6	6	60.00	37	40.4	14
März 1	53.88	30	59.8	6	4.10	42	39.5	2	36.44	32	53.2	4	60.37	38	39.0	7
11	54.18	30	59.2	1	4.52	42	39.7	3	36.76	32	53.6	2	60.75	37	38.3	0
21	54.48	30	59.1	3	4.94	40	40.0	5	37.08	31	53.8	1	61.12	37	38.3	6
31	54.78	28	59.4	7	5.34	40	40.5	5	37.39	30	53.9	1	61.49	35	38.9	11
April 10	55.06	27	60.1	10	5.74	38	41.0	7	37.69	29	53.8	2	61.84	33	40.0	18
20	55.33	25	61.1	13	6.12	35	41.7	8	37.98	27	53.6	3	62.17	30	41.8	21
30	55.58	23	62.4	16	6.47	32	42.5	9	38.25	26	53.3	4	62.47	26	43.9	26
Mai 10	55.81	20	64.0	18	6.79	29	43.4	10	38.51	22	52.9	4	62.73	22	46.5	29
20	56.01	18	65.8	19	7.08	26	44.4	11	38.73	20	52.5	4	62.95	17	49.4	30
30	56.19	14	67.7	19	7.34	21	45.5	12	38.93	17	52.1	5	63.12	13	52.4	32
Juni 9	56.33	11	69.6	20	7.55	16	46.7	12	39.10	14	51.6	4	63.25	7	55.6	31
19	56.44	6	71.6	18	7.71	12	47.9	12	39.24	9	51.2	4	63.32	2	58.7	31
29	56.50	3	73.4	18	7.83	6	49.1	12	39.33	5	50.8	3	63.34	4	61.8	28
Juli 9	56.53	1	75.2	16	7.89	1	50.3	11	39.38	2	50.5	3	63.30	8	64.6	27
19	56.52	4	76.8	14	7.90	5	51.4	10	39.40	3	50.2	2	63.22	14	67.3	24
29	56.48	9	78.2	12	7.85	9	52.4	10	39.37	6	50.0	2	63.08	18	69.7	20
Aug. 8	56.39	11	79.4	9	7.76	14	53.4	7	39.31	10	49.8	2	62.90	22	71.7	16
18	56.28	15	80.3	7	7.62	18	54.1	5	39.21	13	49.6	1	62.68	26	73.3	12
28	56.13	16	81.0	5	7.44	20	54.6	3	39.08	14	49.5	1	62.42	28	74.5	7
Sept. 7	55.97	17	81.5	1	7.24	22	54.9	0	38.94	17	49.4	1	62.14	29	75.2	2
17	55.80	18	81.6	1	7.02	22	54.9	2	38.77	17	49.3	0	61.85	29	75.4	2
27	55.62	17	81.5	4	6.80	21	54.7	5	38.60	15	49.3	1	61.56	29	75.2	7
Okt. 7	55.45	15	81.1	7	6.59	19	54.2	7	38.45	14	49.2	0	61.27	27	74.5	12
17	55.30	12	80.4	10	6.40	15	53.5	10	38.31	11	49.2	0	61.00	24	73.3	17
27	55.18	10	79.4	12	6.25	10	52.5	11	38.20	8	49.2	1	60.76	20	71.6	21
Nov. 6	55.08	5	78.2	15	6.15	5	51.4	11	38.12	3	49.3	2	60.56	15	69.5	26
16	55.03	0	76.7	18	6.10	1	50.3	13	38.09	2	49.5	3	60.41	9	66.9	28
26	55.03	4	74.9	20	6.11	8	49.0	13	38.11	6	49.8	4	60.32	3	64.1	32
Dez. 6	[15] 55.07	10	72.9	23	[15] 6.19	16	47.7	13	[15] 38.17	13	50.2	5	60.29	3	60.9	34
16	55.17	14	70.6	22	6.35	21	46.4	11	38.30	16	50.7	6	60.32	10	57.5	38
26	55.31	18	68.4	23	6.56	27	45.3	10	38.46	21	51.3	7	[16] 60.42	16	53.7	34
36	55.49		66.1		6.83		44.3		38.67		52.0		60.58		50.3	
Mittl. Ort	53.72		81.2		3.90		36.6		36.23		40.8		60.50		67.4	
sec δ, tg δ	1.025		+0.224		1.366		−0.931		1.037		−0.274		1.441		+1.037	

1913	661) η Pavonis. AR.	Δ	Dekl. −	Δ	664) ω Draconis. AR.	Δ	Dekl. +	Δ
	$17^h 37^m$		64° 40′		$17^h 37^m$		68° 47′	
Jan. 0	8.04	42	64.2	20	24.04	22	39.8	35
10	8.46	51	62.2	18	24.26	34	36.3	34
20	8.97	56	60.4	14	24.60	43	32.9	29
30	9.53	61	59.0	12	25.03	51	30.0	25
Febr. 9	10.14	65	57.8	8	25.54	57	27.5	20
19	10.79	67	57.0	4	26.11	61	25.5	13
März 1	11.46	68	56.6	1	26.72	65	24.2	7
11	12.14	68	56.5	2	27.37	64	23.5	0
21	12.82	67	56.7	5	28.01	63	23.5	7
31	13.49	65	57.2	9	28.64	59	24.2	13
April 10	14.14	61	58.1	12	29.23	54	25.5	19
20	14.75	57	59.3	15	29.77	48	27.4	23
30	15.32	52	60.8	17	30.25	39	29.7	28
Mai 10	15.84	47	62.5	19	30.64	30	32.5	31
20	16.31	40	64.4	20	30.94	21	35.6	32
30	16.71	32	66.4	23	31.15	11	38.8	34
Juni 9	17.03	23	68.7	22	31.26	0	42.2	34
19	17.26	16	70.9	23	31.26	10	45.6	33
29	17.42	6	73.2	23	31.16	20	48.9	31
Juli 9	17.48	3	75.5	21	30.96	29	52.0	28
19	17.45	12	77.6	20	30.67	38	54.8	25
29	17.33	21	79.6	17	30.29	46	57.3	21
Aug. 8	17.12	27	81.3	14	29.83	53	59.4	17
18	16.85	34	82.7	11	29.30	58	61.1	13
28	16.51	37	83.8	7	28.72	62	62.4	7
Sept. 7	16.14	41	84.5	1	28.10	64	63.1	3
17	15.73	42	84.6	2	27.46	65	63.4	3
27	15.31	40	84.4	7	26.81	64	63.1	8
Okt. 7	14.91	36	83.7	11	26.17	60	62.3	14
17	14.55	30	82.6	15	25.57	55	60.9	18
27	14.25	23	81.1	18	25.02	49	59.1	23
Nov. 6	14.02	14	79.3	21	24.53	41	56.8	27
16	13.88	4	77.2	23	24.12	30	54.1	32
26	13.84	7	74.9	24	23.82	20	50.9	33
Dez. 6	13.91	17	72.5	24	23.62	9	47.6	36
16	14.08	31	70.1	26	23.53	4	44.0	40
26	16 14.39	38	67.5	21	16 23.57	17	40.0	37
36	14.77		65.4		23.74		36.3	
Mittl. Ort	11.43		60.0		27.52		53.8	
sec δ, tg δ	2.339		−2.114		2.764		+2.578	

1913	665) β Ophiuchi. AR.	Δ	Dekl. +	Δ	667) μ Herculis. AR.	Δ	Dekl. +	Δ
	$17^h 39^m$		4° 35′		$17^h 43^m$		27° 45′	
Jan. 0	9.03	20	59.8	19	1.60	19	63.2	28
10	9.23	23	57.9	17	1.79	22	60.4	27
20	9.46	26	56.2	16	2.01	25	57.7	25
30	9.72	27	54.6	14	2.26	28	55.2	21
Febr. 9	9.99	29	53.2	12	2.54	30	53.1	18
19	10.28	30	52.0	9	2.84	31	51.3	11
März 1	10.58	31	51.1	5	3.15	32	50.2	8
11	10.89	30	50.6	1	3.47	32	49.4	1
21	11.19	29	50.5	2	3.79	31	49.3	3
31	11.48	29	50.7	5	4.10	30	49.6	10
April 10	11.77	27	51.2	8	4.40	29	50.6	13
20	12.04	26	52.0	11	4.69	26	51.9	18
30	12.30	24	53.1	13	4.95	24	53.7	21
Mai 10	12.54	21	54.4	14	5.19	21	55.8	23
20	12.75	19	55.8	16	5.40	18	58.1	25
30	12.94	15	57.4	15	5.58	15	60.6	26
Juni 9	13.09	12	58.9	16	5.73	10	63.2	26
19	13.21	9	60.5	15	5.83	6	65.8	25
29	13.30	4	62.0	14	5.89	1	68.3	24
Juli 9	13.34	1	63.4	13	5.90	2	70.7	22
19	13.35	4	64.7	11	5.88	7	72.9	20
29	13.31	7	65.8	10	5.81	11	74.9	17
Aug. 8	13.24	10	66.8	8	5.70	14	76.6	14
18	13.14	13	67.6	6	5.56	17	78.0	10
28	13.01	15	68.2	4	5.39	19	79.0	7
Sept. 7	12.86	16	68.6	1	5.20	21	79.7	2
17	12.70	17	68.7	0	4.99	21	79.9	1
27	12.53	16	68.7	3	4.78	21	79.8	5
Okt. 7	12.37	15	68.4	4	4.57	18	79.3	9
17	12.22	12	68.0	7	4.39	17	78.4	13
27	12.10	9	67.3	9	4.22	13	77.1	17
Nov. 6	12.01	5	66.4	12	4.09	9	75.4	21
16	11.96	0	65.2	13	4.00	4	73.3	23
26	11.96	4	63.9	15	3.96	0	71.0	26
Dez. 6	12.00	9	62.4	16	3.96	6	68.4	28
16	12.09	14	60.8	20	4.02	12	65.6	31
26	17 12.23	19	58.8	18	18 4.14	16	62.5	29
36	12.42		57.0		4.30		59.6	
Mittl. Ort	10.45		70.1		3.16		75.3	
sec δ, tg δ	1.003		+0.080		1.130		+0.527	

1913	670) ψ Drac. austr. AR.		Dekl. +		671) ξ Draconis. AR.		Dekl. +		672) ϑ Herculis. AR.		Dekl. +		675) 35 Dracon. AR.		Dekl. +	
	17ʰ 43ᵐ		72° 11′		17ʰ 51ᵐ		56° 52′		17ʰ 53ᵐ		37° 15′		17ʰ 53ᵐ		76° 58′	
Jan. 0	24.80	22	17.1	36	59.01	17	56.8	35	14.41	17	29.2	32	14.75	22	17.3	35
10	25.02	35	13.5	34	59.18	24	53.3	34	14.58	21	26.0	30	14.97	39	13.8	33
20	25.37	47	10.1	30	59.42	31	49.9	30	14.79	25	23.0	27	15.36	56	10.5	30
30	25.84	57	7.1	25	59.73	36	46.9	26	15.04	29	20.3	24	15.92	69	7.5	27
Febr. 9	26.41	65	4.6	20	60.09	40	44.3	21	15.33	31	17.9	19	16.61	84	4.8	19
19	27.06	71	2.6	15	60.49	43	42.2	15	15.64	33	16.0	14	17.45	91	2.9	16
März 1	27.77	73	1.1	7	60.92	44	40.7	8	15.97	34	14.6	8	18.36	96	1.3	9
11	28.50	75	0.4	1	61.36	46	39.9	3	16.31	34	13.8	2	19.32	99	0.4	2
21	29.25	73	0.3	6	61.82	45	39.6	5	16.65	33	13.6	4	20.31	97	0.2	5
31	29.98	70	0.9	12	62.27	43	40.1	11	16.98	33	14.0	10	21.28	93	0.7	11
April 10	30.68	63	2.1	18	62.70	40	41.2	17	17.31	31	15.0	15	22.21	85	1.8	17
20	31.31	56	3.9	23	63.10	36	42.9	22	17.62	29	16.5	19	23.06	74	3.5	22
30	31.87	46	6.2	27	63.46	32	45.1	27	17.91	26	18.4	23	23.80	62	5.7	26
Mai 10	32.33	36	8.9	30	63.78	27	47.8	29	18.17	22	20.7	27	24.42	48	8.3	30
20	32.69	23	11.9	32	64.05	20	50.7	32	18.39	19	23.4	28	24.90	31	11.3	32
30	32.92	12	15.1	34	64.25	14	53.9	33	18.58	15	26.2	29	25.21	16	14.5	33
Juni 9	33.04	0	18.5	34	64.39	8	57.2	34	18.73	11	29.1	30	25.37	1	17.8	34
19	33.04	12	21.9	32	64.47	0	60.6	33	18.84	5	32.1	29	25.36	17	21.2	33
29	32.92	24	25.1	31	64.47	6	63.9	31	18.89	1	35.0	28	25.19	35	24.5	31
Juli 9	32.68	36	28.2	29	64.41	13	67.0	30	18.90	4	37.8	26	24.84	49	27.6	29
19	32.32	46	31.1	26	64.28	19	70.0	26	18.86	8	40.4	23	24.35	64	30.5	27
29	31.86	56	33.7	22	64.09	25	72.6	23	18.78	13	42.7	20	23.71	76	33.2	23
Aug. 8	31.30	63	35.9	17	63.84	29	74.9	18	18.65	16	44.7	17	22.95	87	35.5	19
18	30.67	70	37.6	13	63.55	35	76.7	15	18.49	20	46.4	13	22.08	96	37.4	14
28	29.97	74	38.9	9	63.20	37	78.2	9	18.29	23	47.7	9	21.12	102	38.8	10
Sept. 7	29.23	77	39.8	3	62.83	40	79.1	5	18.06	24	48.6	4	20.10	108	39.8	4
17	28.46	79	40.1	2	62.43	40	79.6	1	17.82	25	49.0	1	19.02	108	40.2	0
27	27.67	77	39.9	8	62.03	39	79.5	5	17.57	24	48.9	4	17.94	108	40.2	6
Okt. 7	26.90	73	39.1	12	61.64	38	79.0	11	17.33	23	48.5	10	16.86	104	39.6	11
17	26.17	69	37.9	18	61.26	35	77.9	16	17.10	20	47.5	13	15.82	98	38.5	16
27	25.48	60	36.1	23	60.91	30	76.3	21	16.90	17	46.2	18	14.84	89	36.9	20
Nov. 6	24.88	52	33.8	27	60.61	25	74.2	25	16.73	12	44.4	22	13.95	76	34.9	26
16	24.36	40	31.1	30	60.36	18	71.7	29	16.61	8	42.2	26	13.19	62	32.3	29
26	23.96	28	28.1	34	60.18	11	68.8	33	16.53	3	39.6	28	12.57	47	29.4	32
Dez. 6	23.68	15	24.7	35	60.07	3	65.5	35	16.50	3	36.8	31	12.10	28	26.2	34
16	23.53	1	21.2	40	60.04	6	62.0	39	16.53	10	33.7	34	11.82	10	22.8	39
26	[18] 23.54	14	17.2	36	[20] 60.10	13	58.1	36	[20] 16.63	14	30.3	32	[20] 11.72	11	18.9	36
36	23.68		13.6		60.23		54.5		16.77		27.1		11.83		15.3	
Mittl. Ort	28.96		30.5		61.45		69.6		16.14		41.2		20.51		30.0	
sec δ, tg δ	3.268		+3.113		1.831		+1.533		1.256		+0.761		4.436		+4.322	

1913	673) ν Ophiuchi. AR.	Δ	Dekl. −	Δ	676) γ Draconis. AR.	Δ	Dekl. +	Δ	677) 67 Ophiuchi. AR.	Δ	Dekl. +	Δ	679) γ Sagittarii. AR.	Δ	Dekl. −	Δ
	17h 54m		9° 45′		17h 54m		51° 29′		17h 56m		2° 55′		18h 0m		30° 25′	
Jan. 0	12.71	20	58.7	10	32.96	16	42.8	35	15.80	19	55.7	17	11.41	22	42.0	3
10	12.91	23	59.7	9	33.12	23	39.3	32	15.99	22	54.0	16	11.63	26	41.7	3
20	13.14	26	60.6	9	33.35	28	36.1	30	16.21	24	52.4	15	11.89	29	41.4	2
30	13.40	28	61.5	9	33.63	32	33.1	26	16.45	27	50.9	14	12.18	32	41.2	1
Febr. 9	13.68	30	62.4	7	33.95	36	30.5	21	16.72	28	49.5	11	12.50	34	41.1	0
19	13.98	30	63.1	5	34.31	39	28.4	15	17.00	29	48.4	8	12.84	35	41.1	0
März 1	14.28	31	63.6	3	34.70	41	26.9	9	17.29	30	47.6	4	13.19	35	41.1	0
11	14.59	31	63.9	1	35.11	41	26.0	2	17.59	31	47.2	2	13.54	36	41.1	0
21	14.90	31	64.0	0	35.52	40	25.8	4	17.90	29	47.0	2	13.90	35	41.1	0
31	15.21	30	64.0	3	35.92	39	26.2	11	18.19	30	47.2	5	14.25	35	41.1	0
April 10	15.51	30	63.7	5	36.31	37	27.3	16	18.49	28	47.7	8	14.60	33	41.1	1
20	15.81	27	63.2	6	36.68	33	28.9	21	18.77	27	48.5	11	14.93	33	41.2	1
30	16.08	26	62.6	7	37.01	30	31.0	26	19.04	25	49.6	12	15.26	30	41.3	1
Mai 10	16.34	24	61.9	8	37.31	25	33.6	29	19.29	23	50.8	14	15.56	28	41.4	2
20	16.58	21	61.1	9	37.56	20	36.5	31	19.52	20	52.2	15	15.84	25	41.6	2
30	16.79	18	60.2	8	37.76	15	39.6	33	19.72	17	53.7	16	16.09	22	41.8	3
Juni 9	16.97	15	59.4	9	37.91	9	42.9	33	19.89	14	55.3	15	16.31	18	42.1	4
19	17.12	11	58.5	7	38.00	2	46.2	32	20.03	10	56.8	15	16.49	13	42.5	4
29	17.23	7	57.8	7	38.02	3	49.4	31	20.13	6	58.3	14	16.62	9	42.9	5
Juli 9	17.30	3	57.1	7	37.99	9	52.5	28	20.19	2	59.7	12	16.71	4	43.4	5
19	17.33	1	56.4	5	37.90	15	55.3	26	20.21	2	60.9	11	16.75	0	43.9	5
29	17.32	5	55.9	4	37.75	20	57.9	23	20.19	6	62.0	10	16.75	5	44.4	5
Aug. 8	17.27	9	55.5	3	37.55	24	60.2	19	20.13	9	63.0	8	16.70	10	44.9	5
18	17.18	12	55.2	3	37.31	29	62.1	14	20.04	12	63.8	6	16.60	13	45.4	3
28	17.06	14	54.9	2	37.02	32	63.5	10	19.92	15	64.4	4	16.47	16	45.7	3
Sept. 7	16.92	16	54.7	0	36.70	33	64.5	5	19.77	16	64.8	2	16.31	17	46.0	1
17	16.76	16	54.7	1	36.37	34	65.0	1	19.61	17	65.0	0	16.14	19	46.1	0
27	16.60	16	54.6	1	36.03	34	64.9	5	19.44	16	65.0	1	15.95	18	46.1	1
Okt. 7	16.44	15	54.7	2	35.69	32	64.4	10	19.28	15	64.9	4	15.77	16	46.0	3
17	16.29	12	54.9	2	35.37	29	63.4	16	19.13	13	64.5	6	15.61	14	45.7	3
27	16.17	9	55.1	3	35.08	26	61.8	20	19.00	9	63.9	8	15.47	11	45.4	5
Nov. 6	16.08	5	55.4	5	34.82	21	59.8	24	18.91	6	63.1	10	15.36	6	44.9	5
16	16.03	1	55.9	5	34.61	14	57.4	28	18.85	2	62.1	12	15.30	1	44.4	6
26	16.02	4	56.4	7	34.47	8	54.6	32	18.83	3	60.9	14	15.29	5	43.8	5
Dez. 6	16.06	9	57.1	8	34.39	1	51.4	33	18.86	7	59.5	15	15.34	9	43.3	5
16	16.15	15	57.9	9	34.38	7	48.1	39	18.93	13	58.0	18	15.43	16	42.8	5
26	^{20}16.30	18	58.8	9	^{20}34.45	13	44.2	35	^{21}19.06	17	56.2	16	^{22}15.59	21	42.3	4
36	16.48		59.7		34.58		40.7		19.23		54.6		15.80		41.9	
Mittl. Ort	14.18		49.4		35.13		55.3		17.25		65.8		13.09		33.9	
sec δ, tg δ	1.015		−0.172		1.606		+1.257		1.001		+0.051		1.159		−0.587	

1913	680) 72 Ophiuchi. AR.		Dekl. +		681) o Herculis. AR.		Dekl. +		682) μ Sagittarii. AR.		Dekl. −		688) η Serpentis. AR.		Dekl. −	
	$18^h\ 3^m$		9° 32′		$18^h\ 4^m$		28° 44′		$18^h\ 8^m$		21° 4′		$18^h\ 16^m$		2° 55′	
Jan. 0	12.02	17	52.0	20	7.29	16	48.1	29	32.05	20	66.0	2	47.00	17	30.0	13
10	12.19	21	50.0	19	7.45	20	45.2	28	32.25	23	66.2	3	47.17	21	31.3	12
20	12.40	24	48.1	18	7.65	24	42.4	25	32.48	27	66.5	2	47.38	23	32.5	12
30	12.64	26	46.3	15	7.89	26	39.9	22	32.75	29	66.7	3	47.61	26	33.7	11
Febr. 9	12.90	27	44.8	13	8.15	29	37.7	18	33.04	30	67.0	2	47.87	27	34.8	9
19	13.17	29	43.5	10	8.44	30	35.9	13	33.34	32	67.2	2	48.14	29	35.7	6
März 1	13.46	30	42.5	5	8.74	32	34.6	8	33.66	32	67.4	0	48.43	30	36.3	3
11	13.76	30	42.0	2	9.06	32	33.8	2	33.98	33	67.4	0	48.73	30	36.6	1
21	14.06	30	41.8	2	9.38	32	33.6	3	34.31	33	67.4	1	49.03	30	36.7	1
31	14.36	29	42.0	6	9.70	31	33.9	8	34.64	33	67.3	2	49.33	30	36.6	5
April 10	14.65	29	42.6	10	10.01	29	34.7	13	34.97	31	67.1	2	49.63	29	36.1	7
20	14.94	27	43.6	13	10.30	28	36.0	17	35.28	31	66.9	3	49.92	28	35.4	9
30	15.21	25	44.9	15	10.58	26	37.7	21	35.59	28	66.6	4	50.20	27	34.5	11
Mai 10	15.46	23	46.4	17	10.84	23	39.8	24	35.87	27	66.2	3	50.47	24	33.4	11
20	15.69	20	48.1	18	11.07	20	42.2	26	36.14	24	65.9	4	50.71	23	32.3	13
30	15.89	17	49.9	19	11.27	17	44.8	27	36.38	21	65.5	2	50.94	19	31.0	13
Juni 9	16.06	14	51.8	19	11.44	12	47.5	27	36.59	17	65.3	3	51.13	16	29.7	12
19	16.20	10	53.7	18	11.56	8	50.2	26	36.76	13	65.0	1	51.29	12	28.5	13
29	16.30	6	55.5	17	11.64	4	52.8	26	36.89	9	64.9	1	51.41	8	27.2	11
Juli 9	16.36	2	57.2	16	11.68	1	55.4	24	36.98	5	64.8	0	51.49	5	26.1	10
19	16.38	2	58.8	15	11.67	5	57.8	21	37.03	0	64.8	0	51.54	0	25.1	9
29	16.36	6	60.3	12	11.62	9	59.9	19	37.03	4	64.8	1	51.54	4	24.2	8
Aug. 8	16.30	9	61.5	11	11.53	13	61.8	16	36.99	8	64.9	1	51.50	8	23.4	6
18	16.21	13	62.6	8	11.40	17	63.4	13	36.91	11	65.0	1	51.42	11	22.8	4
28	16.08	15	63.4	5	11.23	19	64.7	8	36.80	15	65.1	1	51.31	13	22.4	3
Sept. 7	15.93	16	63.9	3	11.04	20	65.5	5	36.65	16	65.2	0	51.18	16	22.1	2
17	15.77	18	64.2	1	10.84	22	66.0	1	36.49	17	65.2	0	51.02	16	21.9	0
27	15.59	17	64.3	2	10.62	21	66.1	3	36.32	16	65.2	0	50.86	17	21.9	1
Okt. 7	15.42	16	64.1	4	10.41	20	65.8	7	36.16	15	65.2	0	50.69	15	22.0	3
17	15.26	13	63.7	8	10.21	17	65.1	12	36.01	14	65.2	1	50.54	13	22.3	4
27	15.13	11	62.9	10	10.04	15	63.9	15	35.87	10	65.1	1	50.41	11	22.7	6
Nov. 6	15.02	7	61.9	12	9.89	11	62.4	19	35.77	6	65.0	1	50.30	7	23.3	7
16	14.95	3	60.7	15	9.78	7	60.5	22	35.71	1	64.9	0	50.23	3	24.0	8
26	14.92	1	59.2	17	9.71	1	58.3	25	35.70	3	64.9	0	50.20	1	24.8	10
Dez. 6	14.93	6	57.5	18	9.70	3	55.8	27	35.73	8	64.9	0	50.21	6	25.8	12
16	[22] 14.99	12	55.7	22	[22] 9.73	9	53.1	31	[23] 35.81	14	64.9	1	[25] 50.27	11	27.0	13
26	15.11	15	53.5	19	9.82	14	50.0	28	35.95	18	65.0	2	50.38	15	28.3	13
36	15.26		51.6		9.96		47.2		36.13		65.2		50.53		29.6	
Mittl. Ort	13.48		62.5		8.91		59.3		33.61		57.1		48.47		20.1	
sec δ, tg δ	1.014		+0.168		1.141		+0.548		1.072		−0.386		1.001		−0.051	

1913	689) ε Sagittarii. AR.		Dekl. −		690) 109 Herculis. AR.		Dekl. +		691) α Telescopii. AR.		Dekl. −		695) χ Draconis. AR.		Dekl. +	
	$18^h\ 18^m$		$34°\ 25'$		$18^h\ 19^m$		$21°\ 43'$		$18^h\ 20^m$		$46°\ 1'$		$18^h\ 22^m$		$72°\ 41'$	
Jan. 0	22.08	22	44.5	6	57.85	15	35.3	26	29.30	24	10.6	15	32.88	11	33.0	37
10	22.30	25	43.9	6	58.00	19	32.7	25	29.54	29	9.1	12	32.98	24	29.3	34
20	22.55	29	43.3	5	58.19	22	30.2	23	29.83	33	7.9	11	33.22	37	25.9	33
30	22.84	31	42.8	5	58.41	25	27.9	20	30.16	36	6.8	10	33.59	48	22.6	28
Febr. 9	23.15	34	42.3	3	58.66	27	25.9	17	30.52	39	5.8	8	34.07	60	19.8	24
19	23.49	36	42.0	4	58.93	29	24.2	12	30.91	42	5.0	7	34.67	67	17.4	19
März 1	23.85	36	41.6	2	59.22	30	23.0	8	31.33	42	4.3	5	35.34	73	15.5	12
11	24.21	37	41.4	2	59.52	30	22.2	3	31.75	44	3.8	3	36.07	76	14.3	6
21	24.58	37	41.2	2	59.82	31	21.9	2	32.19	43	3.5	1	36.83	77	13.7	1
31	24.95	37	41.0	1	60.13	31	22.1	7	32.62	43	3.4	0	37.60	74	13.8	7
April 10	25.32	36	40.9	0	60.44	29	22.8	12	33.05	42	3.4	2	38.34	71	14.5	14
20	25.68	35	40.9	1	60.73	29	24.0	15	33.47	41	3.6	4	39.05	65	15.9	19
30	26.03	33	41.0	1	61.02	26	25.5	19	33.88	38	4.0	5	39.70	56	17.8	24
Mai 10	26.36	31	41.1	2	61.28	24	27.4	21	34.26	36	4.5	7	40.26	47	20.2	28
20	26.67	28	41.3	3	61.52	22	29.5	23	34.62	32	5.2	9	40.73	36	23.0	31
30	26.95	24	41.6	4	61.74	18	31.8	24	34.94	28	6.1	10	41.09	24	26.1	33
Juni 9	27.19	20	42.0	6	61.92	14	34.2	25	35.22	24	7.1	12	41.33	12	29.4	35
19	27.39	16	42.6	6	62.06	11	36.7	25	35.46	18	8.3	12	41.45	1	32.9	34
29	27.55	11	43.2	7	62.17	6	39.2	23	35.64	12	9.5	13	41.44	14	36.3	33
Juli 9	27.66	6	43.9	7	62.23	2	41.5	22	35.76	7	10.8	13	41.30	26	39.6	32
19	27.72	1	44.6	7	62.25	3	43.7	20	35.83	0	12.1	13	41.04	37	42.8	29
29	27.73	4	45.3	7	62.22	6	45.7	18	35.83	5	13.4	13	40.67	49	45.7	27
Aug. 8	27.69	8	46.0	7	62.16	10	47.5	15	35.78	11	14.7	11	40.18	58	48.4	23
18	27.61	13	46.7	6	62.06	14	49.0	12	35.67	15	15.8	10	39.60	66	50.7	19
28	27.48	16	47.3	4	61.92	16	50.2	9	35.52	19	16.8	7	38.94	72	52.6	14
Sept. 7	27.32	18	47.7	3	61.76	19	51.1	5	35.33	22	17.5	5	38.22	77	54.0	9
17	27.14	19	48.0	1	61.57	19	51.6	2	35.11	24	18.0	2	37.45	80	54.9	4
27	26.95	20	48.1	0	61.38	19	51.8	2	34.87	24	18.2	1	36.65	81	55.3	1
Okt. 7	26.75	18	48.1	3	61.19	19	51.6	5	34.63	22	18.1	4	35.84	79	55.2	6
17	26.57	16	47.8	3	61.00	16	51.1	9	34.41	20	17.7	7	35.05	75	54.6	12
27	26.41	12	47.5	6	60.84	14	50.2	12	34.21	16	17.0	9	34.30	69	53.4	17
Nov. 6	26.29	8	46.9	6	60.70	10	49.0	16	34.05	10	16.1	11	33.61	61	51.7	22
16	26.21	3	46.3	8	60.60	6	47.4	19	33.95	5	15.0	13	33.00	52	49.5	26
26	26.18	2	45.5	7	60.54	2	45.5	21	33.90	1	13.7	14	32.48	40	46.9	30
Dez. 6	26.20	7	44.8	8	60.52	3	43.4	23	33.91	8	12.3	15	32.08	27	43.9	33
16	26.27	13	44.0	8	60.55	8	41.1	25	33.99	14	10.8	14	31.81	13	40.6	36
26	26.40	20	43.2	8	60.63	13	38.6	28	34.13	23	9.4	16	31.68	1	37.0	39
36	[26] 26.60		42.4		[26] 60.76		35.8		[26] 34.36		7.8		[27] 31.69		33.1	
Mittl. Ort	23.84		35.8		59.42		45.8		31.36		2.1		37.59		43.3	
sec δ, tg δ	1.212		−0.686		1.076		+0.398		1.440		−1.036		3.362		+3.209	

1913	694) *b* Draconis. AR.		Dekl. +		698) ζ Pavonis. AR.		Dekl. −		699) α Lyrae. AR.		Dekl. +		703) 110 Herculis. AR.		Dekl. +	
	$18^h\ 22^m$		$58°\ 44'$		$18^h\ 32^m$		$71°\ 30'$		$18^h\ 33^m$		$38°\ 41'$		$18^h\ 41^m$		$20°\ 27'$	
Jan. 0	35.68	11	49.7	37	48.21	38	24.0	28	57.68	12	57.5	31	53.45	13	34.6	25
10	35.79	20	46.0	35	48.59	50	21.2	26	57.80	16	54.4	30	53.58	17	32.1	23
20	35.99	26	42.5	32	49.09	60	18.6	23	57.96	22	51.4	29	53.75	20	29.8	22
30	36.25	33	39.3	28	49.69	69	16.3	20	58.18	25	48.5	25	53.95	23	27.6	20
Febr. 9	36.58	38	36.5	24	50.38	76	14.3	18	58.43	28	46.0	21	54.18	25	25.6	17
19	36.96	42	34.1	18	51.14	82	12.5	14	58.71	31	43.9	17	54.43	28	23.9	13
März 1	37.38	44	32.3	11	51.96	86	11.1	11	59.02	33	42.2	11	54.71	29	22.6	8
11	37.82	47	31.2	6	52.82	88	10.0	6	59.35	33	41.1	5	55.00	30	21.8	4
21	38.29	47	30.6	2	53.70	90	9.4	3	59.68	35	40.6	1	55.30	30	21.4	2
31	38.76	47	30.8	8	54.60	88	9.1	0	60.03	34	40.7	7	55.60	31	21.6	6
April 10	39.23	44	31.6	13	55.48	86	9.1	5	60.37	33	41.4	13	55.91	30	22.2	10
20	39.67	41	32.9	20	56.34	83	9.6	9	60.70	32	42.7	17	56.21	29	23.2	15
30	40.08	37	34.9	24	57.17	78	10.5	12	61.02	30	44.4	22	56.50	28	24.7	18
Mai 10	40.45	32	37.3	29	57.95	72	11.7	15	61.32	27	46.6	26	56.78	26	26.5	20
20	40.77	26	40.2	31	58.67	64	13.2	18	61.59	23	49.2	28	57.04	23	28.5	23
30	41.03	19	43.3	33	59.31	54	15.0	21	61.82	19	52.0	30	57.27	20	30.8	24
Juni 9	41.22	12	46.6	34	59.85	44	17.1	22	62.01	15	55.0	31	57.47	16	33.2	25
19	41.34	6	50.0	35	60.29	33	19.3	25	62.16	11	58.1	31	57.63	13	35.7	24
29	41.40	3	53.5	33	60.62	20	21.8	25	62.27	5	61.2	30	57.76	9	38.1	24
Juli 9	41.37	9	56.8	32	60.82	8	24.3	25	62.32	0	64.2	28	57.85	4	40.5	23
19	41.28	17	60.0	29	60.90	5	26.8	25	62.32	5	67.0	27	57.89	0	42.8	20
29	41.11	23	62.9	26	60.85	16	29.3	22	62.27	9	69.7	24	57.89	5	44.8	19
Aug. 8	40.88	28	65.5	22	60.69	29	31.5	20	62.18	14	72.1	21	57.84	9	46.7	16
18	40.60	34	67.7	19	60.40	38	33.5	18	62.04	18	74.2	17	57.75	12	48.3	13
28	40.26	38	69.6	14	60.02	47	35.3	14	61.86	21	75.9	13	57.63	15	49.6	10
Sept. 7	39.88	41	71.0	9	59.55	54	36.7	9	61.65	24	77.2	9	57.48	17	50.6	7
17	39.47	43	71.9	4	59.01	57	37.6	4	61.41	25	78.1	4	57.31	19	51.3	3
27	39.04	43	72.3	2	58.44	57	38.0	0	61.16	25	78.5	0	57.12	19	51.6	0
Okt. 7	38.61	42	72.1	6	57.87	57	38.0	6	60.91	25	78.5	5	56.93	19	51.6	4
17	38.19	39	71.5	12	57.30	51	37.4	11	60.66	23	78.0	9	56.74	17	51.2	7
27	37.80	35	70.3	17	56.79	45	36.3	15	60.43	20	77.1	14	56.57	14	50.5	11
Nov. 6	37.45	31	68.6	22	56.34	35	34.8	19	60.23	16	75.7	19	56.43	11	49.4	13
16	37.14	24	66.4	26	55.99	23	32.9	23	60.07	12	73.8	22	56.32	8	48.1	17
26	36.90	17	63.8	30	55.76	11	30.6	26	59.95	7	71.6	26	56.24	3	46.4	20
Dez. 6	36.73	10	60.8	32	55.65	3	28.0	27	59.88	2	69.0	28	56.21	1	44.4	22
16	36.63	1	57.6	35	55.68	17	25.3	27	59.86	3	66.2	30	56.22	5	42.2	23
26	36.62	7	54.1	39	55.85	33	22.6	31	59.89	10	63.2	34	56.27	11	39.9	26
36	[27] 36.69		50.2		[29] 56.18		19.5		[29] 59.99		59.8		[31] 56.38		37.3	
Mittl. Ort	38.42		60.0		52.50		15.4		59.56		67.5		55.03		44.4	
sec δ, tg δ	1.928		+1.648		3.152		−2.990		1.281		+0.801		1.067		+0.373	

1913	704) λ Pavonis. AR.		Dekl. —		705) β Lyrae. AR.		Dekl. +		706) σ Sagittarii. AR.		Dekl. —		707) ο Draconis. AR.		Dekl. +	
	18h 44m		62° 17′		18h 46m		33° 15′		18h 49m		26° 24′		18h 49m		59° 16′	
Jan. 0	6.59	28	28.3	26	50.28	12	30.8	31	50.68	18	30.8	3	52.21	7	46.1	38
10	[0] 6.87	35	25.7	22	[1] 50.40	15	27.7	29	[1] 50.86	20	30.5	3	[1] 52.28	14	42.3	34
20	7.22	42	23.5	21	50.55	19	24.8	27	51.06	24	30.2	3	52.42	22	38.9	33
30	7.64	47	21.4	19	50.74	23	22.1	25	51.30	26	29.9	3	52.64	29	35.6	30
Febr. 9	8.11	53	19.5	17	50.97	27	19.6	20	51.56	29	29.6	3	52.93	35	32.6	26
19	8.64	56	17.8	14	51.24	29	17.6	16	51.85	31	29.3	3	53.28	39	30.0	20
März 1	9.20	60	16.4	11	51.53	30	16.0	11	52.16	32	29.0	3	53.67	44	28.0	15
11	9.80	61	15.3	7	51.83	32	14.9	5	52.48	34	28.7	4	54.11	46	26.5	8
21	10.41	62	14.6	5	52.15	32	14.4	0	52.82	34	28.3	5	54.57	48	25.7	2
31	11.03	63	14.1	2	52.47	33	14.4	6	53.16	34	27.8	5	55.05	48	25.5	— 5
April 10	11.66	61	13.9	— 2	52.80	33	15.0	11	53.50	34	27.3	5	55.53	46	26.0	11
20	12.27	60	14.1	4	53.13	31	16.1	16	53.84	34	26.8	4	55.99	44	27.1	17
30	12.87	56	14.5	8	53.44	29	17.7	21	54.18	32	26.4	5	56.43	40	28.8	23
Mai 10	13.43	53	15.3	11	53.73	27	19.8	24	54.50	30	25.9	3	56.83	36	31.1	26
20	13.96	48	16.4	13	54.00	24	22.2	26	54.80	29	25.6	3	57.19	31	33.7	30
30	14.44	42	17.7	16	54.24	21	24.8	29	55.09	25	25.3	3	57.50	24	36.7	33
Juni 9	14.86	35	19.3	19	54.45	17	27.7	29	55.34	22	25.0	1	57.74	17	40.0	34
19	15.21	28	21.2	19	54.62	12	30.6	29	55.56	18	24.9	0	57.91	10	43.4	35
29	15.49	19	23.1	21	54.74	7	33.5	29	55.74	13	24.9	1	58.01	2	46.9	34
Juli 9	15.68	10	25.2	21	54.81	3	36.4	28	55.87	9	25.0	3	58.03	— 5	50.3	33
19	15.78	2	27.3	21	54.84	— 2	39.2	26	55.96	4	25.3	3	57.98	12	53.6	32
29	15.80	— 7	29.4	20	54.82	7	41.8	23	56.00	— 1	25.6	3	57.86	19	56.8	29
Aug. 8	15.73	15	31.4	19	54.75	11	44.1	20	55.99	5	25.9	4	57.67	26	59.7	25
18	15.58	25	33.3	16	54.64	15	46.1	17	55.94	9	26.3	4	57.41	32	62.2	22
28	15.35	29	34.9	13	54.49	18	47.8	14	55.85	13	26.7	4	57.09	36	64.4	18
Sept. 7	15.06	34	36.2	9	54.31	21	49.2	9	55.72	15	27.1	3	56.73	40	66.2	13
17	14.72	37	37.1	5	54.10	22	50.1	5	55.57	17	27.4	2	56.33	42	67.5	8
27	14.35	37	37.6	2	53.88	23	50.6	1	55.40	18	27.6	2	55.91	44	68.3	3
Okt. 7	13.98	37	37.8	— 4	53.65	23	50.7	— 3	55.22	17	27.8	0	55.47	43	68.6	— 3
17	13.61	34	37.4	8	53.42	21	50.4	8	55.05	15	27.8	0	55.04	41	68.3	8
27	13.27	30	36.6	12	53.21	18	49.6	12	54.90	13	27.8	2	54.63	38	67.5	13
Nov. 6	12.97	23	35.4	15	53.03	15	48.4	17	54.77	9	27.6	2	54.25	34	66.2	18
16	12.74	15	33.9	18	52.88	12	46.7	19	54.68	6	27.4	3	53.91	28	64.4	24
26	12.59	6	32.1	22	52.76	7	44.8	23	54.62	0	27.1	3	53.63	22	62.0	27
Dez. 6	12.53	— 3	29.9	23	52.69	1	42.5	26	54.62	4	26.8	3	53.41	14	59.3	30
16	12.56	12	27.6	24	52.68	— 3	39.9	28	54.66	9	26.5	4	53.27	7	56.3	34
26	12.68	24	25.2	26	52.71	8	37.1	32	54.75	15	26.1	3	53.20	— 2	52.9	38
36	[31] 12.92		22.6		[33] 52.79		33.9		[33] 54.90		25.8		[33] 53.22		49.1	
Mittl. Ort	9.52		18.4		52.06		39.9		52.27		20.6		55.11		54.2	
sec δ, tg δ	2.150		—1.904		1.196		+0.656		1.117		—0.497		1.957		+1.683	

1913	708) λ Telescopii. AR.		Dekl. −		709) ϑ Serpentis pr. AR.		Dekl. +		711) *R* Lyrae. AR.		Dekl. +		713) γ Lyrae. AR.		Dekl. +	
	$18^h\ 51^m$		$53^\circ\ 3'$		$18^h\ 51^m$		$4^\circ\ 5'$		$18^h\ 52^m$		$43^\circ\ 49'$		$18^h\ 55^m$		$32^\circ\ 33'$	
Jan. 0	$28.^s00$		$22.''5$		$52.^s19$		$12.''7$		$39.^s21$		$43.''0$		$39.^s55$		$61.''9$	
10	28.24	24	20.4	21	52.33	14	11.0	17	39.30	9	39.4	36	39.66	11	58.7	32
20	28.51	27	18.5	19	52.49	16	9.5	15	39.44	14	36.2	32	39.80	14	55.9	28
30	28.84	33	16.8	17	52.69	20	8.0	15	39.64	20	33.2	30	39.98	18	53.2	27
Febr. 9	29.21	37	15.2	16	52.92	23	6.8	12	39.87	23	30.5	27	40.20	22	50.8	24
19	29.63	42	13.8	14	53.17	25	5.8	10	40.15	28	28.1	24	40.46	26	48.7	21
März 1	30.07	44	12.6	12	53.43	26	5.0	8	40.46	31	26.3	18	40.74	28	47.1	16
11	30.54	47	11.5	11	53.71	28	4.6	4	40.79	33	25.0	13	41.04	30	46.0	11
21	31.02	48	10.7	8	54.00	29	4.5	1	41.14	35	24.3	7	41.35	31	45.4	6
31	31.51	49	10.1	6	54.30	30	4.7	2	41.51	37	24.2	1	41.68	33	45.4	0
April 10	32.00	49	9.8	3	54.61	31	5.3	6	41.87	36	24.7	5	42.00	32	45.9	5
20	32.49	49	9.7	1	54.90	29	6.2	9	42.23	36	25.8	11	42.33	33	47.0	11
30	32.97	48	9.9	2	55.20	30	7.3	11	42.58	35	27.5	17	42.64	31	48.6	16
Mai 10	33.43	46	10.3	4	55.48	28	8.8	15	42.90	32	29.6	21	42.94	30	50.6	20
20	33.87	44	11.0	7	55.74	26	10.3	15	43.19	29	32.1	25	43.22	28	52.9	23
30	34.26	39	11.9	9	55.99	25	12.0	17	43.45	26	35.0	29	43.47	25	55.5	26
Juni 9	34.62	36	13.0	11	56.20	21	13.8	18	43.67	22	38.1	31	43.68	21	58.3	28
19	34.92	30	14.3	13	56.39	19	15.5	17	43.84	17	41.3	32	43.85	17	61.3	30
29	35.16	24	15.8	15	56.54	15	17.2	17	43.96	12	44.5	32	43.98	13	64.2	29
Juli 9	35.34	18	17.4	16	56.65	11	18.9	17	44.03	7	47.8	33	44.07	9	67.1	29
19	35.45	11	19.1	17	56.72	7	20.4	15	44.04	1	50.9	31	44.11	4	69.9	28
29	35.49	4	20.8	17	56.74	2	21.7	13	43.99	5	53.8	29	44.10	1	72.5	26
Aug. 8	35.46	3	22.4	16	56.73	1	22.9	12	43.90	9	56.4	26	44.04	6	74.8	23
18	35.37	9	24.0	16	56.67	6	23.9	10	43.75	15	58.8	24	43.94	10	76.9	21
28	35.21	16	25.3	13	56.57	10	24.7	8	43.56	19	60.7	19	43.80	14	78.7	18
Sept. 7	35.00	21	26.5	12	56.45	12	25.3	6	43.34	22	62.3	16	43.62	18	80.1	14
17	34.76	24	27.3	8	56.30	15	25.7	4	43.08	26	63.5	12	43.42	20	81.1	10
27	34.49	27	27.9	6	56.14	16	25.9	2	42.81	27	64.2	7	43.20	22	81.7	6
Okt. 7	34.20	29	28.1	2	55.98	16	25.9	0	42.53	28	64.4	2	42.98	22	81.9	2
17	33.93	27	27.9	2	55.82	16	25.7	2	42.25	28	64.2	2	42.76	22	81.6	3
27	33.67	26	27.4	5	55.67	15	25.2	5	41.99	26	63.4	8	42.55	21	80.9	7
Nov. 6	33.46	21	26.5	9	55.54	13	24.6	6	41.75	24	62.2	12	42.36	19	79.8	11
16	33.29	17	25.3	12	55.45	9	23.7	9	41.55	20	60.5	17	42.21	15	78.3	15
26	33.18	11	23.8	15	55.39	6	22.7	10	41.39	16	58.3	22	42.09	12	76.4	19
Dez. 6	33.14	4	22.2	16	55.37	2	21.4	13	41.28	11	55.8	25	42.02	7	74.1	23
16	33.17	3	20.3	19	55.39	2	20.1	13	41.22	6	53.0	28	41.99	3	71.6	25
26	33.27	10	18.4	19	55.46	7	18.6	15	41.22	0	49.9	31	42.01	2	68.9	27
36	33.46	19	16.3	21	55.58	12	16.9	17	41.28	6	46.4	35	42.09	8	65.7	32
Mittl. Ort	30.28		12.0		53.67		22.4		41.28		51.3		41.33		70.5	
sec δ, tg δ	1.664		−1.330		1.003		+0.071		1.386		+0.960		1.187		+0.639	

1913	716) ζ Aquilae. AR.	Diff.	Dekl. +	Diff.	717) λ Aquilae. AR.	Diff.	Dekl. —	Diff.	718) α Coron. austr. AR.	Diff.	Dekl. —	Diff.	720) π Sagittarii. AR.	Diff.	Dekl. —	Diff.
	19h 1m		13° 43′		19h 1m		5° 0′		19h 3m		38° 2′		19h 4m		21° 9′	
Jan. 0	23.14	12	51.0	23	36.47	14	59.6	11	31.51	18	38.4	12	33.91	16	56.6	0
10	23.26	15	48.7	20	36.61	16	60.7	10	31.69	21	37.2	11	34.07	18	56.6	1
20	23.41	18	46.7	19	36.77	19	61.7	9	31.90	25	36.1	10	34.25	21	56.5	0
30	23.59	22	44.8	17	36.96	23	62.6	7	32.15	28	35.1	10	34.46	24	56.5	1
Febr. 9	23.81	24	43.1	14	37.19	25	63.3	6	32.43	32	34.1	9	34.70	27	56.4	2
19	24.05	26	41.7	11	37.44	27	63.9	4	32.75	34	33.2	9	34.97	29	56.2	2
März 1	24.31	27	40.6	7	37.71	28	64.3	2	33.09	35	32.3	8	35.26	30	56.0	4
11	24.58	29	39.9	3	37.99	29	64.5	1	33.44	38	31.5	7	35.56	32	55.6	4
21	24.87	30	39.6	2	38.28	30	64.4	3	33.82	38	30.8	7	35.88	32	55.2	5
31	25.17	30	39.8	5	38.58	31	64.1	6	34.20	39	30.1	6	36.20	33	54.7	6
April 10	25.47	30	40.3	10	38.89	30	63.5	8	34.59	38	29.5	4	36.53	33	54.1	7
20	25.77	30	41.3	13	39.19	30	62.7	10	34.97	38	29.1	3	36.86	33	53.4	7
30	26.07	28	42.6	16	39.49	30	61.7	12	35.35	37	28.8	2	37.19	31	52.7	7
Mai 10	26.35	27	44.2	19	39.79	27	60.5	13	35.72	35	28.6	1	37.50	30	52.0	7
20	26.62	25	46.1	21	40.06	26	59.2	13	36.07	33	28.5	2	37.80	29	51.3	7
30	26.87	22	48.2	22	40.32	23	57.9	13	36.40	30	28.7	3	38.09	25	50.6	5
Juni 9	27.09	19	50.4	22	40.55	20	56.6	14	36.70	26	29.0	4	38.34	23	50.1	5
19	27.28	15	52.6	22	40.75	17	55.2	12	36.96	21	29.4	6	38.57	18	49.6	3
29	27.43	11	54.8	21	40.92	13	54.0	12	37.17	17	30.0	8	38.75	15	49.3	3
Juli 9	27.54	9	56.9	21	41.05	8	52.8	11	37.34	11	30.8	9	38.90	10	49.0	1
19	27.61	2	59.0	18	41.13	4	51.7	9	37.45	6	31.7	9	39.00	6	48.9	0
29	27.63	2	60.8	17	41.17	0	50.8	7	37.51	0	32.6	10	39.06	0	48.9	1
Aug. 8	27.61	6	62.5	15	41.17	5	50.1	6	37.51	5	33.6	10	39.06	4	49.0	1
18	27.55	10	64.0	11	41.12	8	49.5	5	37.46	10	34.6	8	39.02	8	49.1	2
28	27.45	13	65.1	10	41.04	11	49.0	3	37.36	14	35.4	8	38.94	11	49.3	3
Sept. 7	27.32	15	66.1	6	40.93	14	48.7	2	37.22	16	36.2	7	38.83	14	49.6	2
17	27.17	17	66.7	4	40.79	15	48.5	1	37.06	20	36.9	5	38.69	16	49.8	2
27	27.00	18	67.1	1	40.64	16	48.4	1	36.86	20	37.4	2	38.53	17	50.0	2
Okt. 7	26.82	17	67.2	2	40.48	16	48.5	2	36.66	21	37.6	1	38.36	16	50.2	1
17	26.65	16	67.0	6	40.32	15	48.7	3	36.45	18	37.7	2	38.20	16	50.3	1
27	26.49	14	66.4	8	40.17	12	49.0	4	36.27	16	37.5	4	38.04	13	50.4	1
Nov. 6	26.35	12	65.6	11	40.05	10	49.4	6	36.11	12	37.1	6	37.91	10	50.5	0
16	26.23	7	64.5	13	39.95	6	50.0	6	35.99	8	36.5	7	37.81	6	50.5	0
26	26.16	4	63.2	16	39.89	2	50.6	8	35.91	3	35.8	9	37.75	1	50.5	1
Dez. 6	26.12	0	61.6	18	39.87	2	51.4	8	35.88	3	34.9	10	37.74	2	50.4	0
16	26.12	5	59.8	19	39.89	7	52.2	9	35.91	9	33.9	11	37.76	7	50.4	0
26	26.17	10	57.9	22	39.96	12	53.1	11	36.00	13	32.8	10	37.83	13	50.4	1
36	26.27		55.7		40.08		54.2		36.13		31.8		37.96		50.3	
Mittl. Ort	24.67		60.1		37.93		49.7		33.26		27.3		35.43		46.0	
sec δ, tg δ	1.029		+0.244		1.004		—0.088		1.270		—0.782		1.072		—0.387	

1913	723) δ Draconis. AR.		Dekl. +		724) ϑ Lyrae. AR.		Dekl. +		725) ω Aquilae. AR.		Dekl. +		726) κ Cygni. AR.		Dekl. +	
	$19^h 12^m$		67° 30′		$19^h 13^m$		37° 58′		$19^h 13^m$		11° 25′		$19^h 15^m$		53° 11′	
Jan. 0	28.35	2	24.7	38	18.95	8	34.2	34	42.45	11	67.1	21	3.04	4	80.8	37
10	28.33	9	20.9	35	19.03	12	30.8	30	42.56	14	65.0	19	3.08	10	77.1	34
20	28.42	20	17.4	34	19.15	17	27.8	28	42.70	18	63.1	17	3.18	17	73.7	32
30	28.62	29	14.0	31	19.32	20	25.0	26	42.88	20	61.4	16	3.35	22	70.5	31
Febr. 9	28.91	39	10.9	28	19.52	25	22.4	23	43.08	23	59.8	13	3.57	28	67.4	26
19	29.30	46	8.1	23	19.77	28	20.1	18	43.31	25	58.5	11	3.85	33	64.8	21
März 1	29.76	52	5.8	18	20.05	30	18.3	14	43.56	27	57.4	6	4.18	36	62.7	17
11	30.28	57	4.0	11	20.35	32	16.9	8	43.83	29	56.8	2	4.54	40	61.0	10
21	30.85	60	2.9	5	20.67	33	16.1	2	44.12	29	56.6	1	4.94	41	60.0	4
31	31.45	62	2.4	2	21.00	35	15.9	4	44.41	30	56.7	6	5.35	42	59.6	3
April 10	32.07	60	2.6	8	21.35	34	16.3	10	44.71	30	57.3	9	5.77	42	59.9	9
20	32.67	58	3.4	14	21.69	33	17.3	14	45.01	30	58.2	13	6.19	40	60.8	15
30	33.25	53	4.8	20	22.02	32	18.7	20	45.31	29	59.5	16	6.59	39	62.3	20
Mai 10	33.78	47	6.8	25	22.34	30	20.7	23	45.60	28	61.1	18	6.98	35	64.3	25
20	34.25	41	9.3	29	22.64	27	23.0	27	45.88	26	62.9	20	7.33	31	66.8	28
30	34.66	33	12.2	32	22.91	24	25.7	30	46.14	22	64.9	21	7.64	26	69.6	31
Juni 9	34.99	24	15.4	34	23.15	19	28.7	30	46.36	20	67.0	22	7.90	21	72.7	34
19	35.23	14	18.8	35	23.34	15	31.7	32	46.56	17	69.2	21	8.11	14	76.1	34
29	35.37	4	22.3	35	23.49	10	34.9	31	46.73	12	71.3	21	8.25	8	79.5	35
Juli 9	35.41	6	25.8	35	23.59	5	38.0	30	46.85	8	73.4	19	8.33	2	83.0	34
19	35.35	16	29.3	33	23.64	1	41.0	29	46.93	4	75.3	18	8.35	5	86.4	32
29	35.19	25	32.6	32	23.63	5	43.9	26	46.97	1	77.1	17	8.30	11	89.6	30
Aug. 8	34.94	33	35.8	29	23.58	10	46.5	24	46.96	4	78.8	14	8.19	17	92.6	27
18	34.61	41	38.7	26	23.48	15	48.9	21	46.92	9	80.2	11	8.02	23	95.3	24
28	34.20	49	41.3	20	23.33	18	51.0	16	46.83	12	81.3	9	7.79	27	97.7	20
Sept. 7	33.71	53	43.3	17	23.15	21	52.6	13	46.71	14	82.2	7	7.52	31	99.7	16
17	33.18	58	45.0	12	22.94	24	53.9	9	46.57	16	82.9	4	7.21	33	101.3	11
27	32.60	59	46.2	7	22.70	24	54.8	4	46.41	17	83.3	1	6.88	35	102.4	6
Okt. 7	32.01	61	46.9	1	22.46	24	55.2	1	46.24	17	83.4	1	6.53	35	103.0	1
17	31.40	59	47.0	4	22.22	24	55.1	5	46.07	16	83.3	4	6.18	34	103.1	5
27	30.81	56	46.6	10	21.98	21	54.6	10	45.91	15	82.9	8	5.84	33	102.6	9
Nov. 6	30.25	51	45.6	15	21.77	19	53.6	14	45.76	11	82.1	9	5.51	28	101.7	15
16	29.74	45	44.1	20	21.58	15	52.2	18	45.65	9	81.2	12	5.23	25	100.2	20
26	29.29	38	42.1	24	21.43	11	50.4	23	45.56	4	80.0	15	4.98	19	98.2	25
Dez. 6	28.91	29	39.7	29	21.32	5	48.1	25	45.52	0	78.5	16	4.79	13	95.7	28
16	28.62	18	36.8	32	21.27	1	45.6	28	45.52	3	76.9	18	4.66	7	92.9	31
26	28.44	9	33.6	34	21.26	3	42.8	29	45.55	8	75.1	18	4.59	0	89.8	32
36	28.35		30.2		21.29		39.9		45.63		73.3		4.59		86.6	
Mittl. Ort	32.29		30.5		20.88		41.4		43.97		76.0		5.57		87.0	
sec δ, tg δ	2.614		+2.415		1.269		+0.780		1.020		+0.202		1.669		+1.337	

1913	729) τ Draconis. AR.	Δ	Dekl. +	Δ	728) α Sagittarii. AR.	Δ	Dekl. −	Δ	730) δ Aquilae. AR.	Δ	Dekl. +	Δ	732) β Cygni. AR.	Δ	Dekl. +	Δ
	19h 17m		73° 11′		19h 17m		40° 46′		19h 21m		2° 56′		19h 27m		27° 46′	
Jan. 0	8.77s	10	34.4″	38	49.84s	17	61.5″	15	5.26s	11	16.6″	16	11.05s	6	27.4″	26
10	8.67	7	30.6	35	50.01	20	60.0	12	5.37	14	15.0	14	11.11	12	24.8	28
20	8.74	20	27.1	33	50.21	24	58.8	13	5.51	17	13.6	12	11.23	16	22.0	25
30	8.94	34	23.8	32	50.45	28	57.5	13	5.68	20	12.4	11	11.39	18	19.5	23
Febr. 9	9.28	46	20.6	28	50.73	31	56.2	12	5.88	23	11.3	9	11.57	22	17.2	20
19	9.74	57	17.8	24	51.04	34	55.0	11	6.11	25	10.4	7	11.79	25	15.2	16
März 1	10.31	66	15.4	18	51.38	36	53.9	10	6.36	27	9.7	4	12.04	28	13.6	11
11	10.97	72	13.6	13	51.74	37	52.9	10	6.63	28	9.3	1	12.32	29	12.5	7
21	11.69	77	12.3	6	52.11	40	51.9	8	6.91	29	9.2	3	12.61	31	11.8	1
31	12.46	78	11.7	1	52.51	39	51.1	7	7.20	30	9.5	6	12.92	32	11.7	4
April 10	13.24	76	11.8	7	52.90	41	50.4	6	7.50	31	10.1	9	13.24	32	12.1	9
20	14.00	74	12.5	13	53.31	39	49.8	4	7.81	30	11.0	12	13.56	31	13.0	13
30	14.74	68	13.8	19	53.70	39	49.4	3	8.11	29	12.2	14	13.87	31	14.3	18
Mai 10	15.42	60	15.7	24	54.09	38	49.1	1	8.40	29	13.6	16	14.18	29	16.1	22
20	16.02	51	18.1	28	54.47	35	49.0	1	8.69	26	15.2	18	14.47	27	18.3	25
30	16.53	40	20.9	31	54.82	32	49.1	4	8.95	24	17.0	18	14.74	24	20.8	26
Juni 9	16.93	28	24.0	34	55.14	28	49.5	5	9.19	21	18.8	17	14.98	21	23.4	27
19	17.21	16	27.4	34	55.42	23	50.0	7	9.40	18	20.5	18	15.19	17	26.1	29
29	17.37	3	30.8	36	55.65	19	50.7	8	9.58	13	22.3	16	15.36	12	29.0	28
Juli 9	17.40	10	34.4	35	55.84	13	51.5	10	9.71	10	23.9	16	15.48	8	31.8	27
19	17.30	24	37.9	34	55.97	8	52.5	11	9.81	5	25.5	14	15.56	3	34.5	26
29	17.06	35	41.3	32	56.05	1	53.6	11	9.86	1	26.9	12	15.59	2	37.1	24
Aug. 8	16.71	46	44.5	29	56.06	4	54.7	12	9.87	3	28.1	11	15.57	6	39.5	21
18	16.25	57	47.4	26	56.02	9	55.9	10	9.84	7	29.2	8	15.51	10	41.6	19
28	15.68	66	50.0	22	55.93	13	56.9	10	9.77	11	30.0	7	15.41	14	43.5	15
Sept. 7	15.02	73	52.2	17	55.80	17	57.9	8	9.66	13	30.7	4	15.27	17	45.0	12
17	14.29	78	53.9	13	55.63	20	58.7	7	9.53	15	31.1	3	15.10	19	46.2	8
27	13.51	80	55.2	8	55.43	21	59.4	4	9.38	16	31.4	0	14.91	20	47.0	4
Okt. 7	12.71	83	56.0	3	55.22	22	59.8	1	9.22	16	31.4	1	14.71	21	47.4	0
17	11.88	81	56.3	3	55.00	20	59.9	1	9.06	15	31.3	3	14.50	19	47.4	4
27	11.07	77	56.0	8	54.80	17	59.8	4	8.91	14	31.0	6	14.31	18	47.0	8
Nov. 6	10.30	73	55.2	14	54.63	14	59.4	5	8.77	11	30.4	7	14.13	16	46.2	11
16	9.57	64	53.8	19	54.49	10	58.9	8	8.66	7	29.7	10	13.97	12	45.1	16
26	8.93	55	51.9	23	54.39	4	58.1	10	8.59	4	28.7	10	13.85	9	43.5	19
Dez. 6	8.38	44	49.6	28	54.35	1	57.1	11	8.55	0	27.7	12	13.76	4	41.6	21
16	7.94	31	46.8	31	54.36	6	56.0	12	8.55	3	26.5	13	13.72	0	39.5	24
26	7.63	18	43.7	34	54.42	12	54.8	13	8.58	9	25.2	14	13.72	4	37.1	25
36	7.45		40.3		54.54		53.5		8.67		23.8		13.76		34.6	
Mittl. Ort	13.98		39.4		51.61		49.7		6.72		25.9		12.75		34.7	
sec δ, tg δ	3.457		+3.310		1.321		−0.863		1.001		+0.051		1.130		+0.527	

1913	733) ι Cygni. AR.		Dekl. +		736) h Sagittarii. AR.		Dekl. −		738) ϑ Cygni. AR.		Dekl. +		741) γ Aquilae. AR.		Dekl. +	
	19h 27m		51° 32′		19h 31m		25° 4′		19h 34m		50° 0′		19h 42m		10° 23′	
Jan. 0	28.32	2	32.8	33	23.37	11	46.6	3	4.12	1	63.8	32	5.93	8	53.8	18
10	28.34	9	29.5	36	23.48	17	46.3	4	4.13	9	60.6	36	6.01	12	52.0	19
20	28.43	15	25.9	32	23.65	20	45.9	5	4.22	14	57.0	32	6.13	14	50.1	16
30	28.58	21	22.7	30	23.85	22	45.4	4	4.36	19	53.8	30	6.27	18	48.5	15
Febr. 9	28.79	25	19.7	27	24.07	25	45.0	5	4.55	25	50.8	27	6.45	21	47.0	12
19	29.04	31	17.0	22	24.32	27	44.5	6	4.80	29	48.1	22	6.66	23	45.8	10
März 1	29.35	34	14.8	17	24.59	30	43.9	7	5.09	33	45.9	17	6.89	25	44.8	6
11	29.69	37	13.1	11	24.89	32	43.2	7	5.42	36	44.2	11	7.14	27	44.2	2
21	30.06	40	12.0	5	25.21	32	42.5	7	5.78	38	43.1	6	7.41	29	44.0	1
31	30.46	41	11.5	1	25.53	33	41.8	9	6.16	40	42.5	1	7.70	30	44.1	5
April 10	30.87	40	11.6	8	25.86	34	40.9	8	6.56	40	42.6	7	8.00	30	44.6	9
20	31.27	41	12.4	14	26.20	35	40.1	8	6.96	39	43.3	14	8.30	31	45.5	13
30	31.68	38	13.8	19	26.55	33	39.3	8	7.35	38	44.7	18	8.61	30	46.8	15
Mai 10	32.06	35	15.7	24	26.88	33	38.5	8	7.73	35	46.5	24	8.91	29	48.3	19
20	32.41	32	18.1	28	27.21	30	37.7	7	8.08	32	48.9	27	9.20	27	50.2	19
30	32.73	28	20.9	30	27.51	29	37.0	5	8.40	28	51.6	30	9.47	25	52.1	21
Juni 9	33.01	22	23.9	33	27.80	25	36.5	4	8.68	23	54.6	33	9.72	22	54.2	22
19	33.23	16	27.2	35	28.05	22	36.1	3	8.91	17	57.9	34	9.94	19	56.4	22
29	33.39	10	30.7	34	28.27	18	35.8	1	9.08	11	61.3	34	10.13	16	58.6	21
Juli 9	33.49	5	34.1	34	28.45	13	35.7	0	9.19	5	64.7	34	10.29	10	60.7	20
19	33.54	3	37.5	33	28.58	8	35.7	2	9.24	1	68.1	33	10.39	7	62.7	18
29	33.51	8	40.8	30	28.66	3	35.9	3	9.23	6	71.4	31	10.46	2	64.5	17
Aug. 8	33.43	15	43.8	28	28.69	2	36.2	4	9.17	13	74.5	29	10.48	2	66.2	15
18	33.28	20	46.6	25	28.67	6	36.6	4	9.04	18	77.4	25	10.46	7	67.7	12
28	33.08	24	49.1	22	28.61	10	37.0	4	8.86	23	79.9	21	10.39	10	68.9	10
Sept. 7	32.84	29	51.3	17	28.51	13	37.4	5	8.63	26	82.0	18	10.29	12	69.9	7
17	32.55	31	53.0	12	28.38	16	37.9	4	8.37	30	83.8	13	10.17	15	70.6	5
27	32.24	33	54.2	7	28.22	16	38.3	3	8.07	31	85.1	8	10.02	16	71.1	3
Okt. 7	31.91	33	54.9	2	28.06	17	38.6	2	7.76	32	85.9	3	9.86	17	71.4	1
17	31.58	32	55.1	2	27.89	16	38.8	2	7.44	31	86.2	2	9.69	16	71.3	3
27	31.26	31	54.9	8	27.73	15	39.0	1	7.13	30	86.0	7	9.53	15	71.0	5
Nov. 6	30.95	28	54.1	14	27.58	11	39.1	1	6.83	26	85.3	13	9.38	13	70.5	8
16	30.67	24	52.7	18	27.47	8	39.0	1	6.57	23	84.0	17	9.25	9	69.7	11
26	30.43	19	50.9	23	27.39	4	38.9	2	6.34	19	82.3	22	9.16	6	68.6	13
Dez. 6	30.24	14	48.6	26	27.35	0	38.7	3	6.15	14	80.1	26	9.10	2	67.3	14
16	30.10	8	46.0	30	27.35	4	38.4	3	6.01	8	77.5	29	9.08	1	65.9	16
26	30.02	2	43.0	32	27.39	9	38.1	3	5.93	2	74.6	31	9.09	5	64.3	17
36	30.00		39.8		27.48		37.8		5.91		71.5		9.14		62.6	
Mittl. Ort	30.78		38.2		24.86		35.2		6.50		68.8		7.41		62.0	
sec δ, tg δ	1.608		+1.259		1.104		−0.468		1.556		+1.193		1.017		+0.183	

1913	742) δ Cygni. AR.		Dekl. +		743) δ Sagittae. AR.		Dekl. +		745) α Aquilae*). AR.		Dekl. +		747) ε Draconis. AR.		Dekl. +	
	$19^h 42^m$		44° 54′		$19^h 43^m$		18° 18′		$19^h 46^m$		8° 37′		$19^h 48^m$		70° 2′	
Jan. 0	13.21	2	59.5	31	28.95	6	60.9	21	30.85	7	67.8	16	23.93	15	44.5	33
10	13.23	8	56.4	34	29.01	11	58.8	24	30.92	12	66.2	18	23.78	2	41.2	38
20	[14] 13.31	12	53.0	31	[14] 29.12	14	56.4	20	[14] 31.04	15	64.4	15	[15] 23.76	11	37.4	34
30	13.43	18	49.9	28	29.26	18	54.4	19	31.19	18	62.9	13	23.87	22	34.0	33
Febr. 9	13.61	23	47.1	26	29.44	20	52.5	16	31.37	20	61.6	12	24.09	34	30.7	30
19	13.84	26	44.5	22	29.64	23	50.9	13	31.57	23	60.4	8	24.43	43	27.7	26
März 1	14.10	30	42.3	17	29.87	26	49.6	9	31.80	25	59.6	4	24.86	52	25.1	21
11	14.40	33	40.6	11	30.13	27	48.7	5	32.05	28	59.2	3	25.38	58	23.0	16
21	14.73	35	39.5	5	30.40	29	48.2	0	32.33	28	58.9	2	25.96	64	21.4	9
31	15.08	37	39.0	1	30.69	30	48.2	5	32.61	30	59.1	6	26.60	67	20.5	3
April 10	15.45	38	39.1	7	30.99	31	48.7	8	32.91	30	59.7	9	27.27	68	20.2	4
20	15.83	37	39.8	12	31.30	31	49.5	13	33.21	31	60.6	13	27.95	66	20.6	10
30	16.20	36	41.0	18	31.61	30	50.8	16	33.52	30	61.9	15	28.61	63	21.6	15
Mai 10	16.56	33	42.8	23	31.91	30	52.4	20	33.82	29	63.4	18	29.24	58	23.1	21
20	16.89	31	45.1	26	32.21	27	54.4	22	34.11	28	65.2	19	29.82	52	25.2	27
30	17.20	28	47.7	30	32.48	26	56.6	23	34.39	26	67.1	20	30.34	43	27.9	29
Juni 9	17.48	23	50.7	31	32.74	22	58.9	25	34.65	23	69.1	21	30.77	34	30.8	33
19	17.71	18	53.8	33	32.96	18	61.4	25	34.88	19	71.2	21	31.11	24	34.1	35
29	17.89	13	57.1	34	33.14	15	63.9	25	35.07	15	73.3	21	31.35	13	37.6	35
Juli 9	18.02	8	60.5	33	33.29	10	66.4	24	35.22	11	75.4	19	31.48	2	41.1	36
19	18.10	2	63.8	32	33.39	6	68.8	22	35.33	7	77.3	18	31.50	9	44.7	36
29	18.12	4	67.0	30	33.45	1	71.0	21	35.40	3	79.1	17	31.41	20	48.3	34
Aug. 8	18.08	10	70.0	28	33.46	3	73.1	18	35.43	2	80.8	15	31.21	30	51.7	32
18	17.98	14	72.8	25	33.43	7	74.9	16	35.41	6	82.3	11	30.91	39	54.9	29
28	17.84	19	75.3	21	33.36	11	76.5	13	35.35	10	83.4	9	30.52	48	57.8	26
Sept. 7	17.65	23	77.4	17	33.25	14	77.8	10	35.25	12	84.3	7	30.04	55	60.4	22
17	17.42	25	79.1	13	33.11	16	78.8	7	35.13	15	85.0	5	29.49	60	62.6	17
27	17.17	27	80.4	9	32.95	17	79.5	4	34.98	15	85.5	2	28.89	64	64.3	13
Okt. 7	16.90	28	81.3	3	32.78	18	79.9	1	34.83	17	85.7	1	28.25	66	65.6	7
17	16.62	27	81.6	1	32.60	17	80.0	3	34.66	16	85.6	2	27.59	68	66.3	2
27	16.35	26	81.5	7	32.43	16	79.7	6	34.50	14	85.4	6	26.91	66	66.5	4
Nov. 6	16.09	24	80.8	11	32.27	14	79.1	9	34.36	12	84.8	7	26.25	62	66.1	9
16	15.85	20	79.7	16	32.13	11	78.2	13	34.24	10	84.1	10	25.63	56	65.2	15
26	15.65	16	78.1	21	32.02	7	76.9	15	34.14	6	83.1	12	25.07	50	63.7	20
Dez. 6	15.49	12	76.0	24	31.95	4	75.4	17	34.08	2	81.9	13	24.57	41	61.7	24
16	15.37	6	73.6	28	31.91	0	73.7	19	34.06	2	80.6	15	24.16	31	59.3	29
26	15.31	1	70.8	30	31.91	4	71.8	21	34.08	5	79.1	16	23.85	21	56.4	32
36	15.30		67.8		31.95		69.7		34.13		77.5		23.64		53.2	
Mittl. Ort	15.36		64.3		30.50		68.3		32.31		76.3		28.42		46.8	
sec δ, tg δ	1.412		+0.997		1.053		+0.331		1.011		+0.152		2.930		+2.754	

*) Die jährliche Parallaxe ist bereits angebracht.

1913	748) ε Pavonis. AR.	Δ	Dekl. −	Δ	749) β Aquilae. AR.	Δ	Dekl. +	Δ	750) ψ Cygni. AR.	Δ	Dekl. +	Δ	751) ϑ^1 Sagittarii. AR.	Δ	Dekl. −	Δ
	19ʰ 50ᵐ		73° 8′		19ʰ 51ᵐ		6° 11′		19ʰ 53ᵐ		52° 12′		19ʰ 54ᵐ		35° 30′	
Jan. 0	29.02	12	43.5	30	0.95	7	11.0	15	20.36	3	23.9	32	3.00	10	57.4	10
10	29.14	29	40.5	34	1.02	12	9.5	16	20.33	5	20.7	35	3.10	15	56.4	12
20	[15] 29.43	40	37.1	30	[16] 1.14	14	7.9	14	[16] 20.38	11	17.2	33	[16] 3.25	18	55.2	12
30	29.83	52	34.1	29	1.28	17	6.5	12	20.49	17	13.9	30	3.43	23	54.0	12
Febr. 9	30.35	62	31.2	27	1.45	20	5.3	11	20.66	22	10.9	28	3.66	25	52.8	12
19	30.97	71	28.5	25	1.65	22	4.2	8	20.88	28	8.1	24	3.91	28	51.6	12
März 1	31.68	79	26.0	23	1.87	25	3.4	4	21.16	32	5.7	20	4.19	31	50.4	12
11	32.47	86	23.7	18	2.12	27	3.0	2	21.48	36	3.7	13	4.50	34	49.2	12
21	33.33	90	21.9	16	2.39	28	2.8	2	21.84	39	2.4	8	4.84	35	48.0	11
31	34.23	92	20.3	11	2.67	29	3.0	6	22.23	41	1.6	1	5.19	36	46.9	12
April 10	35.15	95	19.2	8	2.96	31	3.6	9	22.64	41	1.5	5	5.55	37	45.7	10
20	36.10	94	18.4	3	3.27	30	4.5	13	23.05	41	2.0	11	5.92	38	44.7	9
30	37.04	93	18.1	1	3.57	31	5.8	14	23.46	41	3.1	17	6.30	38	43.8	7
Mai 10	37.97	89	18.2	6	3.88	29	7.2	17	23.87	38	4.8	22	6.68	37	43.1	6
20	38.86	83	18.8	8	4.17	28	8.9	19	24.25	35	7.0	26	7.05	35	42.5	5
30	39.69	76	19.6	14	4.45	26	10.8	20	24.60	30	9.6	30	7.40	32	42.0	2
Juni 9	40.45	68	21.0	17	4.71	23	12.8	20	24.90	26	12.6	32	7.72	30	41.8	0
19	41.13	56	22.7	19	4.94	20	14.8	19	25.16	21	15.8	34	8.02	26	41.8	2
29	41.69	45	24.6	23	5.14	16	16.7	19	25.37	14	19.2	35	8.28	22	42.0	3
Juli 9	42.14	31	26.9	25	5.30	13	18.6	18	25.51	8	22.7	35	8.50	16	42.3	6
19	42.45	18	29.4	25	5.43	7	20.4	17	25.59	1	26.2	34	8.66	11	42.9	7
29	42.63	3	31.9	25	5.50	3	22.1	14	25.60	5	29.6	32	8.77	6	43.6	9
Aug. 8	42.66	11	34.4	25	5.53	1	23.5	13	25.55	11	32.8	30	8.83	1	44.5	9
18	42.55	24	36.9	23	5.52	5	24.8	11	25.44	17	35.8	28	8.84	6	45.4	10
28	42.31	36	39.2	21	5.47	9	25.9	9	25.27	22	38.6	24	8.78	9	46.4	9
Sept. 7	41.95	47	41.3	18	5.38	11	26.8	6	25.05	27	41.0	20	8.69	14	47.3	9
17	41.48	56	43.1	14	5.27	14	27.4	4	24.78	30	43.0	16	8.55	16	48.2	8
27	40.92	60	44.5	9	5.13	16	27.8	1	24.48	32	44.6	10	8.39	18	49.0	6
Okt. 7	40.32	64	45.4	4	4.97	16	27.9	0	24.16	33	45.6	6	8.21	19	49.6	4
17	39.68	64	45.8	1	4.81	16	27.9	3	23.83	33	46.2	1	8.02	19	50.0	2
27	39.04	61	45.7	7	4.65	14	27.6	5	23.50	32	46.3	5	7.83	18	50.2	0
Nov. 6	38.43	54	45.0	12	4.51	12	27.1	7	23.18	29	45.8	10	7.65	14	50.2	2
16	37.89	46	43.8	17	4.39	10	26.4	9	22.89	26	44.8	15	7.51	11	50.0	4
26	37.43	34	42.1	21	4.29	6	25.5	12	22.63	22	43.3	20	7.40	7	49.6	6
Dez. 6	37.09	23	40.0	25	4.23	3	24.3	12	22.41	18	41.3	24	7.33	3	49.0	8
16	36.86	9	37.5	27	4.20	1	23.1	14	22.23	11	38.9	28	7.30	2	48.2	9
26	36.77	5	34.8	30	4.21	5	21.7	14	22.12	6	36.1	30	7.32	6	47.3	11
36	36.82		31.8		4.26		20.3		22.06		33.1		7.38		46.2	
Mittl. Ort	32.85		28.9		2.39		19.5		22.86		27.2		4.53		44.5	
sec δ, tg δ	3.447		−3.299		1.006		+0.108		1.632		+1.289		1.229		−0.714	

1913	752) γ Sagittae. AR.		Dekl. +		754) δ Pavonis. AR.		Dekl. —		756) θ Aquilae. AR.		Dekl. —		757) o¹ seq. Cygni. AR.		Dekl. +	
	$19^h\ 54^m$		19° 14′		$20^h\ 0^m$		66° 24′		$20^h\ 6^m$		1° 4′		$20^h\ 10^m$		46° 28′	
Jan. 0	51.72		71.9		9.36		33.0		47.63		58.0		51.32		34.5	
10	51.77	5	69.7	22	9.46	10	30.4	26	47.69	6	59.0	10	51.30	2	31.6	29
20	[16] 51.87	10	67.4	23	[18] 9.68	22	27.3	31	[19] 47.79	10	60.1	11	[20] 51.33	3	28.5	31
30	51.99	12	65.3	21	9.97	29	24.5	28	47.92	13	61.0	9	51.42	9	25.1	34
Febr. 9	52.16	17	63.4	19	10.35	38	21.8	27	48.08	16	61.8	8	51.56	14	22.2	29
19	52.35	19	61.8	16	10.80	45	19.3	25	48.27	19	62.4	6	51.76	20	19.5	27
März 1	52.57	22	60.4	14	11.32	52	16.9	24	48.49	22	62.8	4	51.99	23	17.1	24
11	52.82	25	59.5	9	11.90	58	14.7	22	48.73	24	62.9	1	52.27	28	15.2	19
21	53.09	27	59.0	5	12.53	63	12.7	20	48.99	26	62.8	1	52.59	32	13.9	13
31	53.37	28	58.9	1	13.19	66	11.1	16	49.27	28	62.4	4	52.93	34	13.1	8
April 10	53.67	30	59.3	4	13.88	69	9.8	13	49.56	29	61.6	8	53.30	37	12.9	2
20	53.98	31	60.1	8	14.58	70	8.9	9	49.86	30	60.6	10	53.68	38	13.3	4
30	54.29	31	61.4	13	15.29	71	8.4	5	50.17	31	59.4	12	54.06	38	14.3	10
Mai 10	54.60	31	63.0	16	15.99	70	8.2	2	50.48	31	58.1	13	54.44	38	15.9	16
20	54.90	30	64.9	19	16.67	68	8.5	3	50.78	30	56.5	16	54.81	37	17.9	20
30	55.18	28	67.1	22	17.31	64	9.1	6	51.08	30	54.7	18	55.15	34	20.4	25
Juni 9	55.44	26	69.5	24	17.91	60	10.1	10	51.35	27	53.0	17	55.45	30	23.2	28
19	55.67	23	72.0	25	18.44	53	11.4	13	51.60	25	51.3	17	55.72	27	26.3	31
29	55.87	20	74.6	26	18.90	46	13.1	17	51.81	21	49.6	17	55.94	22	29.6	33
Juli 9	56.03	16	77.1	25	19.28	38	15.0	19	51.99	18	48.0	16	56.11	17	33.0	34
19	56.14	11	79.6	25	19.56	28	17.2	22	52.13	14	46.5	15	56.22	11	36.4	34
29	56.21	7	81.9	23	19.73	17	19.5	23	52.23	10	45.2	13	56.27	5	39.8	34
Aug. 8	56.23	2	84.0	21	19.80	7	21.8	23	52.28	5	44.1	11	56.27	0	43.0	32
18	56.21	2	86.0	20	19.77	3	24.2	24	52.29	1	43.1	10	56.20	7	46.0	30
28	56.15	6	87.7	17	19.64	13	26.4	22	52.26	3	42.3	8	56.08	12	48.7	27
Sept. 7	56.05	10	89.1	14	19.41	23	28.5	21	52.19	7	41.7	6	55.92	16	51.1	24
17	55.91	14	90.2	11	19.12	29	30.3	18	52.08	11	41.3	4	55.71	21	53.2	21
27	55.76	15	91.0	8	18.74	38	31.7	14	51.96	12	41.1	2	55.47	24	54.8	16
Okt. 7	55.59	17	91.4	4	18.32	42	32.7	10	51.81	15	41.1	0	55.21	26	56.0	12
17	55.41	18	91.6	2	17.89	43	33.3	6	51.66	15	41.2	1	54.93	28	56.7	7
27	55.24	17	91.4	2	17.45	44	33.4	1	51.51	15	41.4	2	54.66	27	57.0	3
Nov. 6	55.08	16	90.9	5	17.03	42	32.9	5	51.36	15	41.8	4	54.39	27	56.7	3
16	54.93	15	90.0	9	16.65	38	32.0	9	51.24	12	42.4	6	54.13	26	55.9	8
26	54.82	11	88.8	12	16.34	31	30.7	13	51.15	9	43.1	7	53.90	23	54.6	13
Dez. 6	54.73	9	87.4	14	16.11	23	28.9	18	51.08	7	43.8	7	53.71	19	52.8	18
16	54.68	5	85.7	17	15.96	15	26.7	22	51.05	3	44.7	9	53.56	15	50.6	22
26	54.68	0	83.7	20	15.90	6	24.3	24	51.05	0	45.7	10	53.46	10	48.1	25
36	54.71	3	81.7	20	15.95	5	21.7	26	51.09	4	46.7	10	53.41	5	45.3	28
Mittl. Ort	53.27		78.7		12.10		18.0		48.99		48.9		53.52		37.0	
sec δ, tg δ	1.059		+0.349		2.498		−2.289		1.000		−0.019		1.452		+1.053	

1913	759) ϰ Cephei. AR.		Dekl. +		760) 24 Vulpecul. AR.		Dekl. +		761) α^2 Capricorni. AR.		Dekl. —		764) α Pavonis. AR.		Dekl. —	
	20h 11m		77° 26′		20h 13m		24° 23′		20h 13m		12° 48′		20h 18m		57° 0′	
	s		″		s		″		s		″		s		″	
Jan. 0	43.30	39	59.9	31	2.12	2	63.6	22	12.41	6	65.3	3	44.41	6	68.2	22
10	42.91	21	56.8	33	2.14	7	61.4	23	12.47	10	65.6	3	44.47	12	66.0	24
20	42.70	1	53.5	37	2.21	11	59.1	25	12.57	14	65.9	2	44.59	22	63.6	27
30	42.69	19	49.8	34	2.32	14	56.6	22	12.71	17	66.1	0	44.81	26	60.9	24
Febr. 9	42.88	37	46.4	31	2.46	17	54.4	19	12.88	19	66.1	0	45.07	31	58.5	25
19	43.25	55	43.3	28	2.63	21	52.5	15	13.07	22	66.1	3	45.38	36	56.0	23
März 1	43.80	70	40.5	24	2.84	24	51.0	12	13.29	25	65.8	3	45.74	41	53.7	21
11	44.50	82	38.1	18	3.08	26	49.8	8	13.54	26	65.5	6	46.15	45	51.6	20
21	45.32	92	36.3	13	3.34	29	49.0	2	13.80	29	64.9	8	46.60	48	49.6	18
31	46.24	98	35.0	7	3.63	30	48.8	2	14.09	30	64.1	10	47.08	50	47.8	16
April 10	47.22	101	34.3	0	3.93	31	49.0	7	14.39	31	63.1	11	47.58	53	46.2	13
20	48.23	101	34.3	7	4.24	32	49.7	11	14.70	32	62.0	12	48.11	53	44.9	9
30	49.24	97	35.0	12	4.56	32	50.8	16	15.02	33	60.8	13	48.64	53	44.0	7
Mai 10	50.21	90	36.2	18	4.88	31	52.4	20	15.35	31	59.5	14	49.17	53	43.3	3
20	51.11	81	38.0	23	5.19	29	54.4	22	15.66	31	58.1	13	49.70	50	43.0	1
30	51.92	69	40.3	27	5.48	28	56.6	25	15.97	29	56.8	13	50.20	48	43.1	4
Juni 9	52.61	55	43.0	30	5.76	25	59.1	27	16.26	26	55.5	13	50.68	43	43.5	8
19	53.16	39	46.0	34	6.01	21	61.8	27	16.52	24	54.2	11	51.11	38	44.3	11
29	53.55	24	49.4	35	6.22	17	64.5	28	16.76	19	53.1	10	51.49	33	45.4	13
Juli 9	53.79	7	52.9	37	6.39	13	67.3	27	16.95	16	52.1	8	51.82	25	46.7	16
19	53.86	11	56.6	36	6.52	8	70.0	26	17.11	11	51.3	7	52.07	18	48.3	18
29	53.75	27	60.2	35	6.60	4	72.6	25	17.22	7	50.6	4	52.25	9	50.1	19
Aug. 8	53.48	43	63.7	33	6.64	1	75.1	22	17.29	2	50.2	4	52.34	2	52.0	20
18	53.05	57	67.0	32	6.63	6	77.3	20	17.31	3	49.8	1	52.36	6	54.0	20
28	52.48	72	70.2	29	6.57	9	79.3	17	17.28	6	49.7	1	52.30	13	56.0	19
Sept. 7	51.76	83	73.1	25	6.48	13	81.0	14	17.22	10	49.6	1	52.17	19	57.9	16
17	50.93	93	75.6	22	6.35	16	82.4	11	17.12	12	49.7	2	51.98	24	59.5	15
27	50.00	100	77.8	16	6.19	17	83.5	7	17.00	15	49.9	2	51.74	29	61.0	11
Okt. 7	49.00	106	79.4	12	6.02	18	84.2	3	16.85	15	50.1	3	51.45	30	62.1	7
17	47.94	108	80.6	7	5.84	19	84.5	0	16.70	15	50.4	3	51.15	31	62.8	4
27	46.86	109	81.3	1	5.65	17	84.5	4	16.55	14	50.7	4	50.84	29	63.2	2
Nov. 6	45.77	105	81.4	5	5.48	16	84.1	8	16.41	12	51.1	3	50.55	27	63.0	4
16	44.72	99	80.9	11	5.32	13	83.3	11	16.29	10	51.4	4	50.28	23	62.6	10
26	43.73	90	79.8	16	5.19	11	82.2	15	16.19	7	51.8	3	50.05	18	61.6	13
Dez. 6	42.83	78	78.2	21	5.08	7	80.7	17	16.12	3	52.1	4	49.87	12	60.3	17
16	42.05	64	76.1	25	5.01	3	79.0	20	16.09	1	52.5	3	49.75	4	58.6	19
26	41.41	49	73.6	29	4.98	0	77.0	22	16.10	4	52.8	3	49.71	1	56.7	22
36	40.92		70.7		4.98		74.8		16.14		53.1		49.72		54.5	
Mittl. Ort	50.33		59.5		3.72		68.9		13.73		54.6		46.34		52.6	
sec δ, tg δ	4.601		+4.491		1.098		+0.454		1.025		—0.227		1.837		—1.541	

1913	765) γ Cygni. AR.	Δ	Dekl. +	Δ	767) θ Cephei. AR.	Δ	Dekl. +	Δ	768) ε Delphini. AR.	Δ	Dekl. +	Δ	769) α Indi. AR.	Δ	Dekl. −	Δ
	20h 19m		39° 58′		20h 28m		62° 41′		20h 29m		11° 0′		20h 31m		47° 35′	
Jan. 0	4.38	1	37.0	28	4.13	15	65.8	30	2.01	2	18.1	15	25.57	4	59.7	18
10	4.37	3	34.2	29	3.98	6	62.8	33	2.03	6	16.6	16	25.61	10	57.9	19
20	4.40	9	31.3	31	3.92	3	59.5	36	2.09	11	15.0	17	25.71	17	56.0	22
30	4.49	13	28.2	27	3.95	11	55.9	33	2.20	13	13.3	15	25.88	20	53.8	21
Febr. 9	4.62	17	25.5	25	4.06	20	52.6	31	2.33	16	11.8	12	26.08	25	51.7	20
19	4.79	22	23.0	22	4.26	28	49.5	27	2.49	20	10.6	9	26.33	28	49.7	21
März 1	5.01	26	20.8	18	4.54	35	46.8	24	2.69	22	9.7	7	26.61	32	47.6	20
11	5.27	28	19.0	12	4.89	41	44.4	19	2.91	24	9.0	3	26.93	36	45.6	19
21	5.55	32	17.8	8	5.30	46	42.5	12	3.15	27	8.7	1	27.29	39	43.7	18
31	5.87	33	17.0	1	5.76	49	41.3	7	3.42	28	8.8	5	27.68	41	41.9	16
April 10	6.20	35	16.9	5	6.25	53	40.6	0	3.70	30	9.3	8	28.09	43	40.3	14
20	6.55	36	17.4	10	6.78	53	40.6	7	4.00	31	10.1	12	28.52	44	38.9	13
30	6.91	35	18.4	15	7.31	52	41.3	12	4.31	31	11.3	16	28.96	44	37.6	9
Mai 10	7.26	35	19.9	20	7.83	50	42.5	18	4.62	30	12.9	17	29.40	44	36.7	7
20	7.61	33	21.9	24	8.33	46	44.3	23	4.92	30	14.6	20	29.84	43	36.0	4
30	7.94	29	24.3	27	8.79	42	46.6	27	5.22	29	16.6	22	30.27	41	35.6	1
Juni 9	8.23	27	27.0	30	9.21	36	49.3	31	5.51	25	18.8	22	30.68	37	35.5	2
19	8.50	22	30.0	31	9.57	29	52.4	34	5.76	23	21.0	23	31.05	34	35.7	5
29	8.72	18	33.1	33	9.86	21	55.8	35	5.99	19	23.3	22	31.39	29	36.2	9
Juli 9	8.90	13	36.4	33	10.07	14	59.3	36	6.18	15	25.5	22	31.68	24	37.1	10
19	9.03	7	39.7	32	10.21	4	62.9	37	6.33	11	27.7	20	31.92	17	38.1	13
29	9.10	2	42.9	30	10.25	3	66.6	35	6.44	6	29.7	18	32.09	11	39.4	15
Aug. 8	9.12	4	45.9	29	10.22	12	70.1	35	6.50	2	31.5	17	32.20	4	40.9	16
18	9.08	8	48.8	26	10.10	19	73.6	32	6.52	2	33.2	14	32.24	2	42.5	15
28	9.00	13	51.4	23	9.91	27	76.8	29	6.50	6	34.6	12	32.22	8	44.0	16
Sept. 7	8.87	17	53.7	19	9.64	32	79.7	26	6.44	10	35.8	10	32.14	14	45.6	15
17	8.70	20	55.6	16	9.32	38	82.3	21	6.34	12	36.8	7	32.00	18	47.1	13
27	8.50	22	57.2	11	8.94	41	84.4	18	6.22	14	37.5	4	31.82	20	48.4	11
Okt. 7	8.28	23	58.3	7	8.53	45	86.2	12	6.08	16	37.9	2	31.62	23	49.5	8
17	8.05	24	59.0	3	8.08	46	87.4	7	5.92	15	38.1	1	31.39	24	50.3	5
27	7.81	23	59.3	3	7.62	45	88.1	1	5.77	16	38.0	3	31.15	23	50.8	1
Nov. 6	7.58	22	59.0	7	7.17	45	88.2	4	5.61	13	37.7	6	30.92	21	50.9	2
16	7.36	19	58.3	12	6.72	41	87.8	10	5.48	12	37.1	9	30.71	17	50.7	5
26	7.17	16	57.1	16	6.31	37	86.8	15	5.36	9	36.2	11	30.54	14	50.2	9
Dez. 6	7.01	12	55.5	20	5.94	32	85.3	21	5.27	5	35.1	12	30.40	9	49.3	12
16	6.89	9	53.5	24	5.62	26	83.2	25	5.22	3	33.9	14	30.31	4	48.1	14
26	6.80	3	51.1	26	5.36	18	80.7	28	5.19	1	32.5	15	30.27	1	46.7	17
36	6.77		48.5		5.18		77.9		5.20		31.0		30.28		45.0	
Mittl. Ort	6.33		39.7		7.44		65.1		3.40		24.8		27.11		44.2	
sec δ, tg δ	1.305		+0.838		2.180		+1.937		1.019		+0.194		1.483		−1.095	

1913	770) 73 Draconis. AR.	Diff.	770) 73 Draconis. Dekl. +	Diff.	771) β Delphini. AR.	Diff.	771) β Delphini. Dekl. +	Diff.
	20ʰ 32ᵐ		74° 38′		20ʰ 33ᵐ		14° 17′	
	s		″		s		″	
Jan. 0	34.39	36	86.0	30	26.74	2	24.7	17
10	34.03	22	83.0	32	26.76	6	23.0	18
20	33.81	6	79.8	36	26.82	10	21.2	19
30	33.75	10	76.2	34	26.92	12	19.3	16
Febr. 9	33.85	25	72.8	32	27.04	16	17.7	13
19	34.10	41	69.6	29	27.20	19	16.4	12
März 1	34.51	53	66.7	25	27.39	22	15.2	8
11	35.04	64	64.2	20	27.61	24	14.4	4
21	35.68	74	62.2	15	27.85	26	14.0	0
31	36.42	80	60.7	9	28.11	29	14.0	4
April 10	37.22	83	59.8	3	28.40	29	14.4	7
20	38.05	86	59.5	4	28.69	31	15.1	12
30	38.91	83	59.9	10	29.00	32	16.3	15
Mai 10	39.74	80	60.9	16	29.32	31	17.8	18
20	40.54	73	62.5	22	29.63	30	19.6	21
30	41.27	64	64.7	25	29.93	28	21.7	22
Juni 9	41.91	53	67.2	30	30.21	26	23.9	24
19	42.44	42	70.2	33	30.47	23	26.3	24
29	42.86	29	73.5	34	30.70	20	28.7	24
Juli 9	43.15	16	76.9	36	30.90	15	31.1	22
19	43.31	1	80.5	37	31.05	11	33.3	22
29	43.32	13	84.2	37	31.16	7	35.5	21
Aug. 8	43.19	26	87.9	35	31.23	2	37.6	18
18	42.93	39	91.4	34	31.25	3	39.4	17
28	42.54	50	94.8	31	31.22	6	41.1	13
Sept. 7	42.04	61	97.9	27	31.16	9	42.4	11
17	41.43	70	100.6	24	31.07	13	43.5	9
27	40.73	77	103.0	19	30.94	14	44.4	5
Okt. 7	39.96	82	104.9	15	30.80	15	44.9	3
17	39.14	85	106.4	10	30.65	16	45.2	0
27	38.29	86	107.4	4	30.49	16	45.2	3
Nov. 6	37.43	85	107.8	2	30.33	14	44.9	6
16	36.58	81	107.6	8	30.19	12	44.3	9
26	35.77	74	106.8	14	30.07	10	43.4	11
Dez. 6	35.03	67	105.4	19	29.97	6	42.3	14
16	34.36	56	103.5	23	29.91	4	40.9	15
26	33.80	43	101.2	28	29.87	1	39.4	16
36	33.37		98.4		29.88		37.8	
Mittl. Ort	40.13		83.8		28.16		30.7	
sec δ, tg δ	3.779		+3.644		1.032		+0.255	

1913	773) υ Capricorni. AR.	Diff.	773) υ Capricorni. Dekl. −	Diff.	774) α Delphini. AR.	Diff.	774) α Delphini. Dekl. +	Diff.
	20ʰ 35ᵐ		18° 26′		20ʰ 35ᵐ		15° 35′	
	s		″		s		″	
Jan. 0	4.69	5	56.0	1	34.40	2	70.5	18
10	4.74	7	55.9	1	34.42	5	68.7	18
20	4.81	12	55.8	3	34.47	9	66.9	19
30	4.93	15	55.5	3	34.56	12	65.0	17
Febr. 9	5.08	18	55.2	5	34.68	16	63.3	14
19	5.26	21	54.7	6	34.84	19	61.9	12
März 1	5.47	24	54.1	8	35.03	21	60.7	9
11	5.71	25	53.3	9	35.24	24	59.8	5
21	5.96	28	52.4	11	35.48	27	59.3	0
31	6.24	31	51.3	12	35.75	28	59.3	3
April 10	6.55	31	50.1	12	36.03	30	59.6	7
20	6.86	33	48.9	13	36.33	31	60.3	12
30	7.19	33	47.6	14	36.64	31	61.5	15
Mai 10	7.52	33	46.2	14	36.95	32	63.0	18
20	7.85	32	44.8	13	37.27	30	64.8	21
30	8.17	31	43.5	12	37.57	28	66.9	23
Juni 9	8.48	29	42.3	11	37.85	26	69.2	24
19	8.77	26	41.2	10	38.11	24	71.6	24
29	9.03	22	40.2	8	38.35	19	74.0	25
Juli 9	9.25	18	39.4	5	38.54	16	76.5	23
19	9.43	14	38.9	4	38.70	11	78.8	23
29	9.57	9	38.5	2	38.81	7	81.1	21
Aug. 8	9.66	4	38.3	1	38.88	2	83.2	19
18	9.70	0	38.2	2	38.90	2	85.1	17
28	9.70	5	38.4	2	38.88	6	86.8	15
Sept. 7	9.65	8	38.6	4	38.82	10	88.3	11
17	9.57	12	39.0	4	38.72	13	89.4	9
27	9.45	13	39.4	4	38.59	14	90.3	6
Okt. 7	9.32	15	39.8	4	38.45	16	90.9	3
17	9.17	15	40.2	4	38.29	16	91.2	0
27	9.02	15	40.6	4	38.13	16	91.2	3
Nov. 6	8.87	13	41.0	3	37.97	14	90.9	6
16	8.74	11	41.3	3	37.83	12	90.3	8
26	8.63	8	41.6	2	37.71	10	89.5	12
Dez. 6	8.55	5	41.8	1	37.61	7	88.3	13
16	8.50	1	41.9	0	37.54	4	87.0	16
26	8.49	2	41.9	0	37.50	0	85.4	17
36	8.51		41.9		37.50		83.7	
Mittl. Ort	5.94		44.4		35.83		76.1	
sec δ, tg δ	1.054		−0.333		1.038		+0.279	

1913	775) β Pavonis. AR.	Δ	Dekl. −	Δ	777) α Cygni. AR.	Δ	Dekl. +	Δ	780) ε Cygni. AR.	Δ	Dekl. +	Δ	781) ε Aquarii. AR.	Δ	Dekl. −	Δ
	$20^h 37^m$		66° 30′		$20^h 38^m$		44° 57′		$20^h 42^m$		33° 38′		$20^h 42^m$		9° 48′	
Jan. 0	5.61	0	77.4	27	25.85	5	67.6	27	39.71	2	35.7	24	56.82	4	63.6	4
10	5.61	9	74.7	28	25.80	1	64.9	29	39.69	— 2	33.3	25	56.86	6	64.0	4
20	5.70	21	71.9	33	25.79	— 6	62.0	33	39.71	7	30.8	28	56.92	11	64.4	3
30	5.91	28	68.6	30	25.85	10	58.7	29	39.78	11	28.0	25	57.03	13	64.7	1
Febr. 9	6.19	36	65.6	29	25.95	16	55.8	27	39.89	14	25.5	23	57.16	16	64.8	0
19	6.55	44	62.7	28	26.11	20	53.1	24	40.03	19	23.2	20	57.32	20	64.8	1
März 1	6.99	49	59.9	26	26.31	25	50.7	20	40.22	22	21.2	16	57.52	21	64.7	4
11	7.48	56	57.3	24	26.56	28	48.7	15	40.44	25	19.6	12	57.73	24	64.3	6
21	8.04	61	54.9	22	26.84	32	47.2	10	40.69	29	18.4	7	57.97	27	63.7	8
31	8.65	64	52.7	18	27.16	35	46.2	4	40.98	31	17.7	1	58.24	28	62.9	10
April 10	9.29	67	50.9	15	27.51	37	45.8	— 2	41.29	32	17.6	— 4	58.52	31	61.9	12
20	9.96	70	49.4	12	27.88	38	46.0	8	41.61	34	18.0	9	58.83	31	60.7	13
30	10.66	70	48.2	7	28.26	38	46.8	13	41.95	34	18.9	14	59.14	32	59.4	15
Mai 10	11.36	69	47.5	3	28.64	37	48.1	19	42.29	34	20.3	19	59.46	32	57.9	16
20	12.05	66	47.2	— 1	29.01	35	50.0	23	42.63	33	22.2	22	59.78	31	56.3	15
30	12.71	64	47.3	5	29.36	33	52.3	26	42.96	30	24.4	26	60.09	31	54.8	16
Juni 9	13.35	58	47.8	10	29.69	29	54.9	30	43.26	28	27.0	28	60.40	28	53.2	15
19	13.93	52	48.8	12	29.98	25	57.9	32	43.54	25	29.8	30	60.68	25	51.7	14
29	14.45	44	50.0	17	30.23	21	61.1	33	43.79	20	32.8	30	60.93	22	50.3	12
Juli 9	14.89	34	51.7	19	30.44	15	64.4	34	43.99	16	35.8	31	61.15	18	49.1	11
19	15.23	25	53.6	21	30.59	9	67.8	34	44.15	11	38.9	31	61.33	13	48.0	9
29	15.48	15	55.7	23	30.68	4	71.2	33	44.26	6	42.0	29	61.46	9	47.1	8
Aug. 8	15.63	4	58.0	24	30.72	— 2	74.5	31	44.32	0	44.9	28	61.55	5	46.3	5
18	15.67	— 6	60.4	24	30.70	8	77.6	29	44.32	4	47.7	25	61.60	0	45.8	4
28	15.61	16	62.8	23	30.62	12	80.5	26	44.28	8	50.2	23	61.60	4	45.4	2
Sept. 7	15.45	26	65.1	20	30.50	17	83.1	23	44.20	13	52.5	19	61.56	8	45.2	0
17	15.19	32	67.1	17	30.33	21	85.4	18	44.07	15	54.4	16	61.48	10	45.2	1
27	14.87	39	68.8	14	30.12	23	87.2	15	43.92	19	56.0	12	61.38	13	45.3	2
Okt. 7	14.48	43	70.2	10	29.89	25	88.7	10	43.73	19	57.2	8	61.25	14	45.5	2
17	14.05	45	71.2	5	29.64	26	89.7	6	43.54	20	58.0	3	61.11	14	45.7	4
27	13.60	43	71.7	0	29.38	26	90.3	0	43.34	20	58.3	0	60.97	15	46.1	4
Nov. 6	13.17	42	71.7	5	29.12	24	90.3	5	43.14	19	58.3	5	60.82	13	46.5	4
16	12.75	37	71.2	10	28.88	23	89.8	9	42.95	17	57.8	9	60.69	10	46.9	4
26	12.38	30	70.2	15	28.65	20	88.9	15	42.78	15	56.9	13	60.59	8	47.3	5
Dez. 6	12.08	23	68.7	19	28.45	16	87.4	19	42.63	11	55.6	17	60.51	6	47.8	5
16	11.85	15	66.8	23	28.29	12	85.5	23	42.52	8	53.9	21	60.45	2	48.3	5
26	11.70	5	64.5	26	28.17	7	83.2	26	42.44	4	51.8	23	60.43	— 2	48.8	4
36	11.65		61.9		28.10		80.6		42.40		49.5		60.45		49.2	
Mittl. Ort	7.94		60.3		27.94		68.2		41.44		37.8		58.05		53.5	
sec δ, tg δ	2.509		−2.301		1.413		+0.999		1.201		+0.665		1.015		−0.173	

1913	783) η Cephei. AR.	Diff.	783) η Cephei. Dekl. +	Diff.	784) λ Cygni. AR.	Diff.	784) λ Cygni. Dekl. +	Diff.
	$20^h 43^m$		$61° 29'$		$20^h 43^m$		$36° 9'$	
Jan. 0	28.18	16	63.9	28	59.36	3	72.3	25
10	28.02	8	61.1	31	59.33	1	69.8	26
20	27.94	0	58.0	36	59.34	6	67.2	30
30	(28) 27.94	9	54.4	32	(28) 59.40	11	64.2	25
Febr. 9	28.03	16	51.2	31	59.51	14	61.7	24
19	28.19	24	48.1	28	59.65	19	59.3	21
März 1	28.43	32	45.3	24	59.84	22	57.2	18
11	28.75	38	42.9	19	60.06	26	55.4	12
21	29.13	42	41.0	14	60.32	29	54.2	8
31	29.55	47	39.6	8	60.61	31	53.4	2
April 10	30.02	50	38.8	2	60.92	34	53.2	3
20	30.52	52	38.6	5	61.26	34	53.5	9
30	31.04	51	39.1	11	61.60	35	54.4	13
Mai 10	31.55	50	40.2	17	61.95	34	55.7	19
20	32.05	47	41.9	22	62.29	34	57.6	22
30	32.52	43	44.1	27	62.63	31	59.8	26
Juni 9	32.95	37	46.8	30	62.94	28	62.4	28
19	33.32	31	49.8	33	63.22	24	65.2	31
29	33.63	24	53.1	35	63.46	21	68.3	31
Juli 9	33.87	17	56.6	37	63.67	15	71.4	31
19	34.04	8	60.3	37	63.82	11	74.5	32
29	34.12	1	64.0	36	63.93	6	77.7	30
Aug. 8	34.13	8	67.6	35	63.99	0	80.7	28
18	34.05	15	71.1	33	63.99	4	83.5	26
28	33.90	22	74.4	31	63.95	9	86.1	24
Sept. 7	33.68	29	77.5	27	63.86	13	88.5	20
17	33.39	33	80.2	24	63.73	16	90.5	17
27	33.06	38	82.6	19	63.57	19	92.2	13
Okt. 7	32.68	41	84.5	14	63.38	21	93.5	9
17	32.27	42	85.9	10	63.17	21	94.4	4
27	31.85	43	86.9	4	62.96	21	94.8	0
Nov. 6	31.42	42	87.3	2	62.75	20	94.8	5
16	31.00	40	87.1	8	62.55	18	94.3	9
26	30.60	37	86.3	14	62.37	16	93.4	14
Dez. 6	30.23	31	84.9	18	62.21	13	92.0	17
16	29.92	26	83.1	23	62.08	9	90.3	21
26	29.66	20	80.8	27	61.99	5	88.2	24
36	29.46		78.1		61.94		85.8	
Mittl. Ort	31.33		62.0		61.15		73.9	
sec δ, tg δ	2.095		+1.842		1.239		+0.731	

1913	785) β Indi. AR.	Diff.	785) β Indi. Dekl. −	Diff.	786) 32 Vulpecul. AR.	Diff.	786) 32 Vulpecul. Dekl. +	Diff.
	$20^h 47^m$		$58° 46'$		$20^h 50^m$		$27° 43'$	
Jan. 0	59.32	0	76.3	24	49.52	1	31.6	22
10	59.32	7	73.9	25	49.51	2	29.4	22
20	59.39	16	71.4	29	49.53	5	27.2	23
30	(29) 59.55	21	68.5	26	(30) 49.58	11	24.9	25
Febr. 9	59.76	27	65.9	27	49.69	14	22.4	20
19	60.03	32	63.2	26	49.83	17	20.4	18
März 1	60.35	38	60.6	26	50.00	21	18.6	14
11	60.73	42	58.0	23	50.21	24	17.2	10
21	61.15	47	55.7	22	50.45	27	16.2	5
31	61.62	50	53.5	20	50.72	29	15.7	1
April 10	62.12	52	51.5	16	51.01	31	15.6	5
20	62.64	55	49.9	14	51.32	32	16.1	9
30	63.19	55	48.5	10	51.64	33	17.0	14
Mai 10	63.74	55	47.5	7	51.97	33	18.4	18
20	64.29	54	46.8	2	52.30	32	20.2	22
30	64.83	52	46.6	1	52.62	30	22.4	24
Juni 9	65.35	48	46.7	5	52.92	28	24.8	27
19	65.83	43	47.2	9	53.20	25	27.5	28
29	66.26	37	48.1	12	53.45	21	30.3	29
Juli 9	66.63	31	49.3	16	53.66	16	33.2	29
19	66.94	23	50.9	17	53.82	12	36.1	28
29	67.17	15	52.6	20	53.94	8	38.9	28
Aug. 8	67.32	7	54.6	21	54.02	2	41.7	25
18	67.39	2	56.7	21	54.04	2	44.2	23
28	67.37	9	58.8	20	54.02	7	46.5	21
Sept. 7	67.28	17	60.8	20	53.95	10	48.6	17
17	67.11	23	62.8	17	53.85	13	50.3	14
27	66.88	28	64.5	14	53.72	16	51.7	11
Okt. 7	66.60	30	65.9	11	53.56	18	52.8	7
17	66.30	32	67.0	6	53.38	18	53.5	3
27	65.98	32	67.6	3	53.20	18	53.8	0
Nov. 6	65.66	31	67.9	3	53.02	17	53.8	5
16	65.35	27	67.6	7	52.85	15	53.3	8
26	65.08	22	66.9	11	52.70	13	52.5	12
Dez. 6	64.86	17	65.8	15	52.57	11	51.3	16
16	64.69	11	64.3	19	52.46	7	49.7	18
26	64.58	4	62.4	22	52.39	3	47.9	21
36	64.54		60.2		52.36		45.8	
Mittl. Ort	61.07		59.1		51.10		34.3	
sec δ, tg δ	1.929		−1.650		1.130		+0.526	

1913	788) ν Cygni. AR.		Dekl. +		790) ζ Microscopii. AR.		Dekl. —		793) 61 Cygni pr.*) AR.		Dekl. +		794) ν Aquarii. AR.		Dekl. —	
	20h 53m		40° 49′		20h 57m		38° 58′		21h 2m		38° 18′		21h 4m		11° 43′	
Jan. 0	53.84	5	53.8	25	23.35	2	33.9	12	57.96	4	75.6	23	50.26	2	38.6	2
10	53.79	1	51.3	27	23.37	6	32.7	14	57.92	0	73.3	25	50.28	4	38.8	2
20	53.78	4	48.6	28	23.43	10	31.3	16	57.92	4	70.8	26	50.32	8	39.0	2
30	53.82	9	45.8	30	23.53	16	29.7	18	57.96	10	68.2	28	50.40	12	39.2	0
Febr. 9	[31] 53.91	13	42.8	26	[31] 23.69	18	27.9	18	[2] 58.06	14	65.4	24	[2] 50.52	14	39.2	2
19	54.04	18	40.2	23	23.87	22	26.1	18	58.20	18	63.0	20	50.66	17	39.0	4
März 1	54.22	22	37.9	19	24.09	26	24.3	18	58.38	22	61.0	18	50.83	20	38.6	5
11	54.44	26	36.0	15	24.35	29	22.5	19	58.60	26	59.2	13	51.03	23	38.1	8
21	54.70	29	34.5	10	24.64	32	20.6	18	58.86	29	57.9	9	51.26	25	37.3	9
31	54.99	33	33.5	4	24.96	34	18.8	18	59.15	32	57.0	2	51.51	28	36.4	12
April 10	55.32	34	33.1	1	25.30	36	17.0	17	59.47	34	56.8	2	51.79	29	35.2	13
20	55.66	36	33.2	8	25.66	39	15.3	15	59.81	36	57.0	8	52.08	31	33.9	14
30	56.02	37	34.0	12	26.05	39	13.8	14	60.17	37	57.8	14	52.39	32	32.5	16
Mai 10	56.39	36	35.2	18	26.44	40	12.4	11	60.54	37	59.2	18	52.71	33	30.9	16
20	56.75	35	37.0	22	26.84	39	11.3	10	60.91	35	61.0	23	53.04	32	29.3	16
30	57.10	33	39.2	25	27.23	37	10.3	6	61.26	34	63.3	26	53.36	31	27.7	16
Juni 9	57.43	30	41.7	28	27.60	36	9.7	4	61.60	31	65.9	29	53.67	30	26.1	15
19	57.73	26	44.5	31	27.96	32	9.3	1	61.91	27	68.8	31	53.97	26	24.6	14
29	57.99	22	47.6	33	28.28	28	9.2	2	62.18	23	71.9	33	54.23	24	23.2	13
Juli 9	58.21	17	50.9	33	28.56	24	9.4	5	62.41	19	75.2	33	54.47	20	21.9	10
19	58.38	11	54.2	33	28.80	19	9.9	7	62.60	13	78.5	33	54.67	16	20.9	9
29	58.49	6	57.5	31	28.99	13	10.6	9	62.73	9	81.8	32	54.83	12	20.0	7
Aug. 8	58.55	1	60.6	31	29.12	7	11.5	11	62.82	3	85.0	30	54.95	6	19.3	4
18	58.56	4	63.7	28	29.19	2	12.6	12	62.85	2	88.0	29	55.01	2	18.9	3
28	58.52	9	66.5	26	29.21	4	13.8	14	62.83	7	90.9	26	55.03	1	18.6	1
Sept. 7	58.43	13	69.1	23	29.17	8	15.2	13	62.76	11	93.5	23	55.02	6	18.5	0
17	58.30	18	71.4	19	29.09	13	16.5	12	62.65	15	95.8	20	54.96	9	18.5	2
27	58.12	19	73.3	15	28.96	16	17.7	11	62.50	18	97.8	15	54.87	11	18.7	3
Okt. 7	57.93	22	74.8	11	28.80	19	18.8	9	62.32	19	99.3	12	54.76	14	19.0	3
17	57.71	23	75.9	6	28.61	19	19.7	7	62.13	20	100.5	7	54.62	14	19.3	4
27	57.48	23	76.5	1	28.42	19	20.4	5	61.93	21	101.2	2	54.48	14	19.7	5
Nov. 6	57.25	22	76.6	3	28.23	17	20.9	1	61.72	19	101.4	2	54.34	13	20.2	4
16	57.03	20	76.3	8	28.06	16	21.0	1	61.53	19	101.2	7	54.21	11	20.6	5
26	56.83	18	75.5	13	27.90	13	20.9	4	61.34	16	100.5	11	54.10	9	21.1	4
Dez. 6	56.65	16	74.2	17	27.77	9	20.5	6	61.18	13	99.4	16	54.01	7	21.5	4
16	56.49	11	72.5	21	27.68	5	19.9	10	61.05	10	97.8	19	53.94	4	21.9	3
26	56.38	8	70.4	24	27.63	1	18.9	11	60.95	6	95.9	21	53.90	0	22.2	3
36	56.30		68.0		27.62		17.8		60.89		93.8		53.90		22.5	
Mittl. Ort	55.74		54.0		24.60		18.8		59.77		75.8		51.41		28.3	
sec δ, tg δ	1.322		+0.864		1.286		−0.809		1.274		+0.790		1.021		−0.207	

*) Die jährliche Parallaxe ist bereits angebracht.

1913	795) Br. 2777.				797) ζ Cygni.				800) α Equulei.				803) α Cephei.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	21ʰ 7ᵐ		77° 46′		21ʰ 9ᵐ		29° 51′		21ʰ 11ᵐ		4° 53′		21ʰ 16ᵐ		62° 12′	
Jan. 0	8.67ˢ		31.3″		12.40ˢ		69.2″		27.31ˢ		8.7″		27.14ˢ		64.8″	
10	8.07	60	28.7	26	12.36	4	67.0	22	27.31	0	7.6	11	26.92	22	62.3	25
20	7.62	45	25.7	30	12.36	0	64.8	22	27.34	3	6.4	12	26.77	15	59.4	29
30	7.36	26	22.5	32	12.40	4	62.4	24	27.40	6	5.3	11	26.70	7	56.3	31
Febr. 9	7.30	6	18.9	36	12.48	8	59.9	25	27.50	10	4.3	10	26.72	2	52.8	35
19	7.45	15	15.7	32	12.60	12	57.8	21	27.62	12	3.5	8	26.82	10	49.6	32
März 1	7.79	34	12.6	31	12.75	15	55.9	19	27.77	15	2.9	6	27.00	18	46.7	29
11	8.31	52	9.8	28	12.94	19	54.4	15	27.96	19	2.6	3	27.27	27	44.0	27
21	8.98	67	7.5	23	13.17	23	53.2	12	28.17	21	2.5	1	27.61	34	41.8	22
31	9.80	82	5.6	19	13.43	26	52.5	7	28.41	24	2.8	3	28.01	40	40.1	17
April 10	10.72	92	4.2	14	13.72	29	52.3	2	28.68	27	3.4	6	28.45	44	39.0	11
20	11.71	99	3.5	7	14.02	30	52.6	3	28.96	28	4.4	10	28.95	50	38.4	6
30	12.75	104	3.4	1	14.35	33	53.4	8	29.26	30	5.6	12	29.47	52	38.5	1
Mai 10	13.79	104	4.0	6	14.68	33	54.7	13	29.57	31	7.1	15	29.99	52	39.2	7
20	14.80	101	5.1	11	15.02	34	56.4	17	29.89	32	8.8	17	30.52	53	40.5	13
30	15.76	96	6.8	17	15.35	33	58.5	21	30.20	31	10.7	19	31.03	51	42.3	18
Juni 9	16.64	88	9.0	22	15.67	32	60.9	24	30.50	30	12.8	21	31.50	47	44.6	23
19	17.40	76	11.6	26	15.96	29	63.6	27	30.79	29	14.9	21	31.93	43	47.4	28
29	18.03	63	14.7	31	16.23	27	66.4	28	31.05	26	17.0	21	32.31	38	50.5	31
Juli 9	18.51	48	18.0	33	16.45	22	69.3	29	31.28	23	19.0	20	32.61	30	53.9	34
19	18.83	32	21.5	35	16.64	19	72.3	30	31.47	19	20.9	19	32.85	24	57.5	36
29	18.98	15	25.2	37	16.78	14	75.2	29	31.62	15	22.7	18	33.00	15	61.2	37
Aug. 8	18.97	1	28.9	37	16.87	9	78.0	28	31.73	11	24.3	16	33.08	8	64.8	36
18	18.79	18	32.6	37	16.91	4	80.7	27	31.80	7	25.8	15	33.07	1	68.5	37
28	18.45	34	36.2	36	16.91	0	83.2	25	31.82	2	27.0	12	32.98	9	72.0	35
Sept. 7	17.95	50	39.7	35	16.86	5	85.5	23	31.80	2	28.1	11	32.82	16	75.3	33
17	17.31	64	42.8	31	16.77	9	87.4	19	31.74	6	28.9	8	32.59	23	78.3	30
27	16.55	76	45.6	28	16.64	13	89.0	16	31.65	9	29.4	5	32.30	29	81.0	27
Okt. 7	15.68	87	48.1	25	16.49	15	90.3	13	31.54	11	29.8	4	31.96	34	83.3	23
17	14.73	95	50.1	20	16.32	17	91.2	9	31.41	13	29.9	1	31.59	37	85.1	18
27	13.71	102	51.6	15	16.14	18	91.7	5	31.27	14	29.8	1	31.18	41	86.5	14
Nov. 6	12.65	106	52.6	10	15.96	18	91.8	1	31.13	14	29.6	2	30.76	42	87.3	8
16	11.59	106	53.0	4	15.79	17	91.6	2	31.00	13	29.1	5	30.34	42	87.5	2
26	10.54	105	52.8	2	15.62	17	90.9	7	30.88	12	28.5	6	29.93	41	87.2	3
Dez. 6	9.55	99	52.0	8	15.48	14	89.8	11	30.78	10	27.7	8	29.54	39	86.3	9
16	8.63	92	50.7	13	15.37	11	88.3	15	30.71	7	26.8	9	29.19	35	84.8	15
26	7.81	82	48.8	19	15.28	9	86.6	17	30.66	5	25.8	10	28.88	31	82.9	19
36	7.12	69	46.4	24	15.22	6	84.6	20	30.65	1	24.7	11	28.64	24	80.4	25
Mittl. Ort	15.60		25.6		13.97		70.4		28.52		15.2		30.23		60.0	
sec δ, tg δ	4.721		+4.614		1.153		+0.574		1.004		+0.085		2.145		+1.898	

1913	804) ι Pegasi. AR.	Δ	Dekl. +	Δ	805) γ Pavonis. AR.	Δ	Dekl. —	Δ	806) ζ Capricorni. AR.	Δ	Dekl. —	Δ	808) β Aquarii. AR.	Δ	Dekl. —	Δ
	$21^h\ 18^m$		19° 25′		$21^h\ 19^m$		65° 45′		$21^h\ 21^m$		22° 47′		$21^h\ 26^m$		5° 57′	
Jan. 0	2.41	3	51.2	17	14.08	10	57.1	25	41.11	0	32.0	3	57.72	0	24.6	6
10	2.38	0	49.5	18	13.98	1	54.6	28	41.11	2	31.7	5	57.72	2	25.2	5
20	2.38	5	47.7	18	13.97	— 7	51.8	30	41.13	7	31.2	5	57.74	5	25.7	4
30	2.43	8	45.9	20	14.04	17	48.8	34	41.20	11	30.7	9	57.79	9	26.1	3
Febr. 9	2.51	11	43.9	16	14.21	24	45.4	31	41.31	13	29.8	9	57.88	11	26.4	1
19	2.62	14	42.3	14	14.45	32	42.3	31	41.44	17	28.9	10	57.99	15	26.5	— 1
März 1	2.76	18	40.9	10	14.77	39	39.2	31	41.61	19	27.9	12	58.14	17	26.4	3
11	2.94	21	39.9	8	15.16	46	36.1	29	41.80	23	26.7	14	58.31	21	26.1	5
21	3.15	25	39.1	3	15.62	52	33.2	26	42.03	25	25.3	14	58.52	23	25.6	8
31	3.40	26	38.8	— 1	16.14	56	30.6	24	42.28	28	23.9	16	58.75	26	24.8	10
April 10	3.66	29	38.9	6	16.70	61	28.2	22	42.56	30	22.3	16	59.01	28	23.8	12
20	3.95	31	39.5	9	17.31	64	26.0	17	42.86	32	20.7	17	59.29	30	22.6	15
30	4.26	32	40.4	14	17.95	66	24.3	14	43.18	34	19.0	16	59.59	31	21.1	16
Mai 10	4.58	32	41.8	18	18.61	67	22.9	9	43.52	34	17.4	16	59.90	32	19.5	17
20	4.90	32	43.6	20	19.28	67	22.0	6	43.86	35	15.8	16	60.22	32	17.8	18
30	5.22	30	45.6	22	19.95	64	21.4	1	44.21	33	14.2	13	60.54	32	16.0	18
Juni 9	5.52	30	47.8	25	20.59	61	21.3	— 4	44.54	32	12.9	12	60.86	29	14.2	18
19	5.82	26	50.3	25	21.20	57	21.7	8	44.86	30	11.7	10	61.15	28	12.4	17
29	6.08	23	52.8	26	21.77	49	22.5	12	45.16	27	10.7	8	61.43	25	10.7	17
Juli 9	6.31	20	55.4	26	22.26	42	23.7	16	45.43	23	9.9	5	61.68	21	9.0	14
19	6.51	15	58.0	25	22.68	33	25.3	19	45.66	18	9.4	3	61.89	18	7.6	13
29	6.66	11	60.5	25	23.01	23	27.2	21	45.84	14	9.1	1	62.07	13	6.3	10
Aug. 8	6.77	6	63.0	22	23.24	14	29.3	23	45.98	9	9.0	— 2	62.20	8	5.3	9
18	6.83	1	65.2	20	23.38	2	31.6	24	46.07	4	9.2	3	62.28	4	4.4	6
28	6.84	— 2	67.2	18	23.40	— 7	34.0	24	46.11	0	9.5	5	62.32	0	3.8	5
Sept. 7	6.82	7	69.0	15	23.33	17	36.4	23	46.11	5	10.0	6	62.32	4	3.3	2
17	6.75	9	70.5	12	23.16	25	38.7	21	46.06	8	10.6	7	62.28	7	3.1	1
27	6.66	13	71.7	10	22.91	32	40.8	18	45.98	12	11.3	7	62.21	10	3.0	— 1
Okt. 7	6.53	14	72.7	6	22.59	38	42.6	14	45.86	13	12.0	8	62.11	12	3.1	2
17	6.39	15	73.3	4	22.21	40	44.0	10	45.73	14	12.8	6	61.99	13	3.3	3
27	6.24	15	73.7	— 1	21.81	43	45.0	5	45.59	15	13.4	6	61.86	13	3.6	4
Nov. 6	6.09	15	73.6	3	21.38	41	45.5	0	45.44	14	14.0	4	61.73	13	4.0	5
16	5.94	14	73.3	6	20.97	40	45.5	6	45.30	13	14.4	3	61.60	12	4.5	5
26	5.80	12	72.7	9	20.57	35	44.9	11	45.17	10	14.7	2	61.48	10	5.0	6
Dez. 6	5.68	9	71.8	12	20.22	29	43.8	14	45.07	8	14.9	1	61.38	7	5.6	5
16	5.59	7	70.6	15	19.93	22	42.4	20	44.99	5	15.0	— 1	61.31	5	6.1	6
26	5.52	5	69.1	16	19.71	14	40.4	24	44.94	3	14.9	3	61.26	3	6.7	6
36	5.47		67.5		19.57		38.0		44.91		14.6		61.23		7.3	
Mittl. Ort	3.76		54.2		15.80		38.2		42.15		19.5		58.80		15.9	
sec δ, tg δ	1.060		+0.353		2.436		—2.221		1.085		—0.420		1.005		—0.104	

1913	809) β Cephei. AR.		Dekl. +		810) ν Octantis. AR.		Dekl. —		811) 74 Cygni. AR.		Dekl. +		815) ε Pegasi. AR.		Dekl. +	
	21h 27m		70° 10′		21h 31m		77° 46′		21h 33m		40° 1′		21h 39m		9° 28′	
Jan. 0	28.36	37	49.9	25	47.68	34	57.9	29	25.89	8	22.6	23	53.63	3	27.8	13
10	27.99	28	47.4	28	47.34	18	55.0	32	25.81	5	20.3	24	53.60	0	26.5	12
20	27.71	17	44.6	31	47.16	1	51.8	34	25.76	1	17.9	26	53.60	3	25.3	13
30	27.54	6	41.5	35	47.15	15	48.4	35	25.75	3	15.3	26	53.63	6	24.0	12
Febr. 9	27.48	8	38.0	32	47.30	37	44.9	39	25.78	9	12.7	28	53.69	10	22.8	11
19	27.56	18	34.8	31	47.67	49	41.0	35	25.87	13	9.9	23	53.79	12	21.7	8
März 1	27.74	31	31.7	29	48.16	64	37.5	34	26.00	18	7.6	20	53.91	16	20.9	6
11	28.05	41	28.8	24	48.80	78	34.1	32	26.18	22	5.6	17	54.07	19	20.3	2
21	28.46	50	26.4	20	49.58	89	30.9	29	26.40	26	3.9	11	54.26	22	20.1	1
31	28.96	57	24.4	14	50.47	99	28.0	26	26.66	29	2.8	7	54.48	25	20.2	4
April 10	29.53	64	23.0	9	51.46	108	25.4	22	26.95	33	2.1	1	54.73	27	20.6	8
20	30.17	67	22.1	2	52.54	114	23.2	18	27.28	35	2.0	4	55.00	29	21.4	12
30	30.84	69	21.9	5	53.68	119	21.4	14	27.63	36	2.4	9	55.29	31	22.6	14
Mai 10	31.53	69	22.4	10	54.87	120	20.0	9	27.99	37	3.3	14	55.60	32	24.0	17
20	32.22	67	23.4	16	56.07	119	19.1	4	28.36	36	4.7	19	55.92	32	25.7	20
30	32.89	62	25.0	21	57.26	116	18.7	1	28.72	35	6.6	24	56.24	31	27.7	21
Juni 9	33.51	56	27.1	26	58.42	110	18.8	6	29.07	33	9.0	26	56.55	30	29.8	22
19	34.07	49	29.7	30	59.52	102	19.4	11	29.40	30	11.6	29	56.85	28	32.0	22
29	34.56	40	32.7	33	60.54	89	20.5	15	29.70	26	14.5	31	57.13	25	34.2	23
Juli 9	34.96	30	36.0	35	61.43	76	22.0	20	29.96	22	17.6	32	57.38	21	36.5	22
19	35.26	20	39.5	37	62.19	60	24.0	22	30.18	17	20.8	33	57.59	18	38.7	21
29	35.46	10	43.2	37	62.79	43	26.2	26	30.35	11	24.1	33	57.77	13	40.8	19
Aug. 8	35.56	2	46.9	38	63.22	23	28.8	27	30.46	6	27.4	31	57.90	9	42.7	18
18	35.54	12	50.7	36	63.45	4	31.5	28	30.52	1	30.5	30	57.99	5	44.5	15
28	35.42	22	54.3	35	63.49	15	34.3	27	30.53	4	33.5	28	58.04	0	46.0	14
Sept. 7	35.20	32	57.8	33	63.34	33	37.0	27	30.49	8	36.3	25	58.04	3	47.4	10
17	34.88	40	61.1	29	63.01	51	39.7	24	30.41	13	38.8	21	58.01	7	48.4	9
27	34.48	46	64.0	26	62.50	63	42.1	20	30.28	15	40.9	18	57.94	10	49.3	6
Okt. 7	34.02	53	66.6	22	61.87	78	44.1	17	30.13	19	42.7	15	57.84	11	49.9	4
17	33.49	58	68.8	16	61.09	85	45.8	11	29.94	20	44.2	10	57.73	13	50.3	1
27	32.91	60	70.4	12	60.24	90	46.9	6	29.74	21	45.2	5	57.60	14	50.4	1
Nov. 6	32.31	61	71.6	5	59.34	90	47.5	0	29.53	21	45.7	1	57.46	13	50.3	4
16	31.70	61	72.1	0	58.44	87	47.5	7	29.32	20	45.8	4	57.33	12	49.9	5
26	31.09	58	72.1	6	57.57	81	46.8	12	29.12	19	45.4	8	57.21	11	49.4	7
Dez. 6	30.51	55	71.5	12	56.76	71	45.6	17	28.93	16	44.6	13	57.10	9	48.7	9
16	29.96	48	70.3	17	56.05	57	43.9	23	28.77	14	43.3	17	57.01	8	47.8	11
26	29.48	42	68.6	22	55.48	44	41.6	27	28.63	10	41.6	21	56.93	4	46.7	11
36	29.06		66.4		55.04		38.9		28.53		39.5		56.89		45.6	
Mittl. Ort	32.56		43.1		50.47		37.9		27.63		20.1		54.78		32.2	
sec δ, tg δ	2.948		+2.774		4.723		—4.616		1.306		+0.840		1.014		+0.166	

1913	819) δ Capricorni. AR.	Diff.	Dekl. −	Diff.	821) π^2 Cygni. AR.	Diff.	Dekl. +	Diff.	822) γ Gruis. AR.	Diff.	Dekl. −	Diff.	823) 16 Pegasi. AR.	Diff.	Dekl. +	Diff.
	$21^h 42^m$		16° 31′		$21^h 43^m$		48° 54′		$21^h 48^m$		37° 46′		$21^h 49^m$		25° 30′	
Jan. 0	13.49	2	32.2	0	32.64	14	28.6	23	38.95	4	44.1	11	4.83	6	55.4	17
10	13.47	1	32.2	0	32.50	10	26.3	25	38.91	1	43.0	13	4.77	3	53.7	19
20	13.48	4	32.2	3	32.40	4	23.8	28	38.90	3	41.7	15	4.74	0	51.8	20
30	13.52	7	31.9	4	32.36	0	21.0	28	38.93	8	40.2	17	4.74	3	49.8	20
Febr. 9	13.59	11	31.5	6	32.36	7	18.2	31	39.01	12	38.5	20	4.77	8	47.8	20
19	13.70	14	30.9	7	32.43	12	15.1	27	39.13	15	36.5	20	4.85	12	45.8	17
März 1	13.84	17	30.2	9	32.55	18	12.4	24	39.28	19	34.5	21	4.97	15	44.1	14
11	14.01	20	29.3	11	32.73	22	10.0	20	39.47	23	32.4	22	5.12	18	42.7	11
21	14.21	23	28.2	13	32.95	28	8.0	15	39.70	26	30.2	22	5.30	23	41.6	6
31	14.44	26	26.9	15	33.23	33	6.5	11	39.96	30	28.0	22	5.53	25	41.0	2
April 10	14.70	28	25.4	15	33.56	35	5.4	4	40.26	32	25.8	21	5.78	28	40.8	2
20	14.98	31	23.9	17	33.91	39	5.0	1	40.58	36	23.7	20	6.06	31	41.0	7
30	15.29	32	22.2	17	34.30	40	5.1	6	40.94	37	21.7	19	6.37	32	41.7	11
Mai 10	15.61	33	20.5	18	34.70	41	5.7	12	41.31	38	19.8	17	6.69	33	42.8	15
20	15.94	33	18.7	17	35.11	41	6.9	18	41.69	39	18.1	15	7.02	33	44.3	19
30	16.27	33	17.0	17	35.52	39	8.7	22	42.08	39	16.6	12	7.35	33	46.2	22
Juni 9	16.60	32	15.3	15	35.91	37	10.9	26	42.47	37	15.4	9	7.68	32	48.4	25
19	16.92	30	13.8	13	36.28	34	13.5	29	42.84	36	14.5	5	8.00	29	50.9	26
29	17.22	27	12.5	12	36.62	29	16.4	32	43.20	32	14.0	3	8.29	26	53.5	28
Juli 9	17.49	23	11.3	10	36.91	24	19.6	34	43.52	28	13.7	1	8.55	22	56.3	28
19	17.72	20	10.3	7	37.15	19	23.0	34	43.80	24	13.8	4	8.77	18	59.1	27
29	17.92	15	9.6	5	37.34	13	26.4	35	44.04	18	14.2	7	8.95	14	61.8	27
Aug. 8	18.07	11	9.1	2	37.47	7	29.9	34	44.22	13	14.9	10	9.09	9	64.5	26
18	18.18	6	8.9	1	37.54	1	33.3	33	44.35	8	15.9	11	9.18	5	67.1	24
28	18.24	1	8.8	2	37.55	5	36.6	32	44.43	2	17.0	14	9.23	0	69.5	22
Sept. 7	18.25	1	9.0	3	37.50	10	39.8	28	44.45	3	18.4	14	9.23	5	71.7	20
17	18.24	7	9.3	5	37.40	14	42.6	26	44.42	8	19.8	14	9.18	7	73.7	16
27	18.17	10	9.8	5	37.26	19	45.2	22	44.34	12	21.2	14	9.11	11	75.3	14
Okt. 7	18.07	11	10.3	6	37.07	22	47.4	18	44.22	14	22.6	12	9.00	13	76.7	10
17	17.96	13	10.9	6	36.85	24	49.2	14	44.08	17	23.8	11	8.87	15	77.7	7
27	17.83	13	11.5	6	36.61	25	50.6	8	43.91	17	24.9	9	8.72	15	78.4	3
Nov. 6	17.70	13	12.1	5	36.36	26	51.4	4	43.74	18	25.8	6	8.57	15	78.7	0
16	17.57	13	12.6	5	36.10	25	51.8	1	43.56	17	26.4	3	8.42	15	78.7	4
26	17.44	10	13.1	4	35.85	24	51.7	7	43.39	15	26.7	0	8.27	14	78.3	8
Dez. 6	17.34	9	13.5	3	35.61	22	51.0	12	43.24	12	26.7	4	8.13	12	77.5	10
16	17.25	6	13.8	2	35.39	20	49.8	16	43.12	10	26.3	6	8.01	10	76.5	14
26	17.19	3	14.0	1	35.19	15	48.2	21	43.02	6	25.7	9	7.91	8	75.1	16
36	17.16		14.1		35.04		46.1		42.96		24.8		7.83		73.5	
Mittl. Ort	14.44 ●		21.3		34.67		23.6		39.86		28.4		6.16		55.3	
sec δ, tg δ	1.043		−0.297		1.521		+1.146		1.265		−0.775		1.108		+0.477	

1913	827) α Aquarii. AR.		827) α Aquarii. Dekl. —		828) ι Aquarii. AR.		828) ι Aquarii. Dekl. —		830) 20 Cephei. AR.		830) 20 Cephei. Dekl. +		829) α Gruis. AR.		829) α Gruis. Dekl. —	
	22h 1m		0° 44′		22h 1m		14° 17′		22h 2m		62° 21′		22h 2m		47° 22′	
Jan. 0	18.00		41.0		43.54		41.9		18.97		48.0		44.48		76.1	
		3		7		3		1		28		21		8		15
10	17.97		41.7		43.51		42.0		18.69		45.9		44.40		74.6	
		1		8		0		0		22		26		4		17
20	17.96		42.5		43.51		42.0		18.47		43.3		44.36		72.9	
		1		6		2		1		15		28		1		20
30	17.97		43.1		43.53		41.9		18.32		40.5		44.37		70.9	
		5		5		5		3		8		30		5		22
Febr. 9	18.02		43.6		43.58		41.6		18.24		37.5		44.42		68.7	
	16	8		4	17	9		5	17	0		34	17	11		26
19	18.10		44.0		43.67		41.1		18.24		34.1		44.53		66.1	
		11		2		11		7		10		30		15		26
März 1	18.21		44.2		43.78		40.4		18.34		31.1		44.68		63.5	
		14		0		14		8		18		28		19		26
11	18.35		44.2		43.92		39.6		18.52		28.3		44.87		60.9	
		17		4		18		11		26		25		24		27
21	18.52		43.8		44.10		38.5		18.78		25.8		45.11		58.2	
		20		6		21		12		33		20		27		26
31	18.72		43.2		44.31		37.3		19.11		23.8		45.38		55.6	
		23		8		24		14		40		16		33		26
April 10	18.95		42.4		44.55		35.9		19.51		22.2		45.71		53.0	
		26		11		27		16		45		11		35		24
20	19.21		41.3		44.82		34.3		19.96		21.1		46.06		50.6	
		29		14		29		18		50		4		39		22
30	19.50		39.9		45.11		32.5		20.46		20.7		46.45		48.4	
		30		16		31		18		53		2		41		21
Mai 10	19.80		38.3		45.42		30.7		20.99		20.9		46.86		46.3	
		31		18		33		18		54		8		43		17
20	20.11		36.5		45.75		28.9		21.53		21.7		47.29		44.6	
		33		19		33		19		53		13		44		14
30	20.44		34.6		46.08		27.0		22.06		23.0		47.73		43.2	
		32		20		33		17		52		19		44		11
Juni 9	20.76		32.6		46.41		25.3		22.58		24.9		48.17		42.1	
		30		20		32		17		49		23		42		8
19	21.06		30.6		46.73		23.6		23.07		27.2		48.59		41.3	
		30		20		30		16		45		28		41		3
29	21.36		28.6		47.03		22.0		23.52		30.0		49.00		41.0	
		26		19		28		13		39		31		37		1
Juli 9	21.62		26.7		47.31		20.7		23.91		33.1		49.37		41.1	
		24		18		25		12		32		34		33		4
19	21.86		24.9		47.56		19.5		24.23		36.5		49.70		41.5	
		20		16		21		9		25		35		28		8
29	22.06		23.3		47.77		18.6		24.48		40.0		49.98		42.3	
		16		14		16		7		18		37		23		12
Aug. 8	22.22		21.9		47.93		17.9		24.66		43.7		50.21		43.5	
		11		13		13		4		9		37		16		14
18	22.33		20.6		48.06		17.5		24.75		47.4		50.37		44.9	
		7		10		8		2		2		37		10		16
28	22.40		19.6		48.14		17.3		24.77		51.1		50.47		46.5	
		3		8		3		0		6		35		3		18
Sept. 7	22.43		18.8		48.17		17.3		24.71		54.6		50.50		48.3	
		1		5		0		2		13		34		2		19
17	22.42		18.3		48.17		17.5		24.58		58.0		50.48		50.2	
		4		4		5		3		20		31		9		18
27	22.38		17.9		48.12		17.8		24.38		61.1		50.39		52.0	
		8		1		8		5		26		28		13		18
Okt. 7	22.30		17.8		48.04		18.3		24.12		63.9		50.26		53.8	
		10		0		10		6		31		23		17		16
17	22.20		17.8		47.94		18.9		23.81		66.2		50.09		55.4	
		11		1		11		6		35		20		19		14
27	22.09		17.9		47.83		19.5		23.46		68.2		49.90		56.8	
		12		3		13		6		38		14		21		10
Nov. 6	21.97		18.2		47.70		20.1		23.08		69.6		49.69		57.8	
		12		5		13		5		39		9		22		7
16	21.85		18.7		47.57		20.6		22.69		70.5		49.47		58.5	
		12		5		12		6		40		4		21		3
26	21.73		19.2		47.45		21.2		22.29		70.9		49.26		58.8	
		11		6		11		5		40		2		20		1
Dez. 6	21.62		19.8		47.34		21.7		21.89		70.7		49.06		58.7	
		9		7		9		4		37		9		17		5
16	21.53		20.5		47.25		22.1		21.52		69.8		48.89		58.2	
		7		7		7		3		35		14		14		8
26	21.46		21.2		47.18		22.4		21.17		68.4		48.75		57.4	
		5		7		5		1		30		18		10		13
36	21.41		21.9		47.13		22.5		20.87		66.6		48.65		56.1	
Mittl. Ort	18.96		34.6		44.41		31.8		21.80		39.3		45.32		58.5	
sec δ, tg δ	1.000		−0.013		1.032		−0.255		2.155		+1.909		1.477		−1.087	

1913	834) ϑ Pegasi. AR.	Δ	834) ϑ Pegasi. Dekl. +	Δ	835) π Pegasi. AR.	Δ	835) π Pegasi. Dekl. +	Δ	836) ζ Cephei. AR.	Δ	836) ζ Cephei. Dekl. +	Δ	837) 24 Cephei. AR.	Δ	837) 24 Cephei. Dekl. +	Δ
	$22^h 5^m$		5° 45′		$22^h 6^m$		32° 44′		$22^h 7^m$		57° 46′		$22^h 8^m$		71° 54′	
Jan. 0	47.68	3	65.4	10	5.92	9	66.2	18	47.62	23	27.9	21	4.06	49	55.4	21
10	47.65	2	64.4	10	5.83	6	64.4	20	47.39	18	25.8	25	3.57	41	53.3	24
20	47.63	1	63.4	10	5.77	3	62.4	22	47.21	12	23.3	27	3.16	30	50.9	28
30	47.64	3	62.4	9	5.74	1	60.2	22	47.09	6	20.6	29	2.86	18	48.1	31
Febr. 9	47.67	8	61.5	8	5.75	5	58.0	24	47.03	1	17.7	33	2.68	6	45.0	34
19	47.75	10	60.7	6	5.80	9	55.6	20	47.04	8	14.4	29	2.62	8	41.6	32
März 1	47.85	13	60.1	3	5.89	13	53.6	18	47.12	15	11.5	27	2.70	21	38.4	30
11	47.98	17	59.8	0	6.02	18	51.8	14	47.27	23	8.8	24	2.91	34	35.4	27
21	48.15	20	59.8	3	6.20	22	50.4	10	47.50	29	6.4	20	3.25	44	32.7	23
31	48.35	23	60.1	5	6.42	25	49.4	6	47.79	35	4.4	15	3.69	55	30.4	18
April 10	48.58	25	60.6	9	6.67	29	48.8	1	48.14	41	2.9	9	4.24	63	28.6	13
20	48.83	28	61.5	12	6.96	31	48.7	3	48.55	44	2.0	4	4.87	70	27.3	8
30	49.11	31	62.7	15	7.27	33	49.0	9	48.99	47	1.6	2	5.57	73	26.5	1
Mai 10	49.42	31	64.2	17	7.60	35	49.9	13	49.46	48	1.8	8	6.30	76	26.4	5
20	49.73	32	65.9	19	7.95	35	51.2	17	49.94	48	2.6	13	7.06	75	26.9	11
30	50.05	32	67.8	21	8.30	35	52.9	21	50.42	47	3.9	19	7.81	72	28.0	16
Juni 9	50.37	31	69.9	21	8.65	33	55.0	25	50.89	45	5.8	24	8.53	68	29.6	22
19	50.68	29	72.0	22	8.98	31	57.5	26	51.34	41	8.2	27	9.21	61	31.8	26
29	50.97	27	74.2	21	9.29	29	60.1	29	51.75	37	10.9	31	9.82	53	34.4	30
Juli 9	51.24	24	76.3	21	9.58	24	63.0	30	52.12	30	14.0	33	10.35	45	37.4	33
19	51.48	20	78.4	19	9.82	20	66.0	30	52.42	25	17.3	35	10.80	33	40.7	36
29	51.68	16	80.3	18	10.02	16	69.0	30	52.67	18	20.8	37	11.13	23	44.3	37
Aug. 8	51.84	12	82.1	16	10.18	10	72.0	29	52.85	11	24.5	36	11.36	11	48.0	38
18	51.96	7	83.7	14	10.28	7	74.9	28	52.96	3	28.1	36	11.47	0	51.8	38
28	52.03	3	85.1	12	10.35	1	77.7	26	52.99	3	31.7	35	11.47	12	55.6	37
Sept. 7	52.06	1	86.3	10	10.36	3	80.3	23	52.96	9	35.2	32	11.35	22	59.3	35
17	52.05	4	87.3	7	10.33	7	82.6	21	52.87	16	38.4	30	11.13	31	62.8	33
27	52.01	7	88.0	5	10.26	11	84.7	17	52.71	20	41.4	27	10.82	40	66.1	31
Okt. 7	51.94	10	88.5	2	10.15	13	86.4	14	52.51	25	44.1	23	10.42	49	69.2	27
17	51.84	11	88.7	1	10.02	15	87.8	11	52.26	29	46.4	19	9.93	54	71.9	22
27	51.73	12	88.8	1	9.87	16	88.9	6	51.97	31	48.3	14	9.39	61	74.1	17
Nov. 6	51.61	12	88.7	3	9.71	17	89.5	3	51.66	33	49.7	9	8.78	63	75.8	12
16	51.49	12	88.4	5	9.54	17	89.8	2	51.33	33	50.6	3	8.15	65	77.0	6
26	51.37	11	87.9	7	9.37	16	89.6	6	51.00	33	50.9	2	7.50	64	77.6	1
Dez. 6	51.26	10	87.2	7	9.21	14	89.0	9	50.67	31	50.7	8	6.86	63	77.7	6
16	51.16	8	86.5	9	9.07	13	88.1	14	50.36	28	49.9	14	6.23	58	77.1	12
26	51.08	5	85.6	10	8.94	10	86.7	16	50.08	25	48.5	18	5.65	52	75.9	17
36	51.03		84.6		8.84		85.1		49.83		46.7		5.13		74.2	
Mittl. Ort	48.68		69.9		7.32		63.3		50.03		19.5		8.26		44.9	
sec δ, tg δ	1.005		+0.101		1.189		+0.643		1.875		+1.586		3.221		+3.061	

1913	840) ϑ Aquarii. AR.	Δ	Dekl. −	Δ	841) α Tucanae. AR.	Δ	Dekl. −	Δ	842) γ Aquarii. AR.	Δ	Dekl. −	Δ	844) 3 Lacertae. AR.	Δ	Dekl. +	Δ
	22h 12m		8° 12′		22h 12m		60° 41′		22h 17m		1° 49′		22h 20m		51° 47′	
Jan. 0	13.79	4	69.0	4	32.20	16	57.1	20	8.92	5	40.4	7	6.20	18	42.3	19
10	13.75	1	69.4	3	32.04	10	55.1	23	8.87	2	41.1	6	6.02	15	40.4	23
20	13.74	0	69.7	2	31.94	5	52.8	27	8.85	0	41.7	6	5.87	11	38.1	26
30	13.74	4	69.9	1	31.89	2	50.1	28	8.85	3	42.3	4	5.76	6	35.5	28
Febr. 9	13.78	7	70.0	1	31.91	9	47.3	30	8.88	6	42.7	3	5.70	0	32.7	27
19	13.85	11	69.9	3	32.00	17	44.3	35	8.94	10	43.0	1	5.70	7	30.0	31
März 1	[19] 13.96	13	69.6	5	[19] 32.17	22	40.8	32	[21] 9.04	12	43.1	2	[21] 5.77	13	26.9	25
11	14.09	16	69.1	8	32.39	29	37.6	32	9.16	16	42.9	4	5.90	19	24.4	23
21	14.25	20	68.3	10	32.68	34	34.4	30	9.32	19	42.5	6	6.09	25	22.1	19
31	14.45	23	67.3	12	33.02	40	31.4	30	9.51	22	41.9	9	6.34	30	20.2	14
April 10	14.68	25	66.1	14	33.42	45	28.4	27	9.73	25	41.0	12	6.64	35	18.8	9
20	14.93	28	64.7	16	33.87	49	25.7	24	9.98	28	39.8	14	6.99	38	17.9	3
30	15.21	31	63.1	17	34.36	53	23.3	21	10.26	30	38.4	17	7.37	42	17.6	2
Mai 10	15.52	31	61.4	19	34.89	55	21.2	17	10.56	31	36.7	18	7.79	43	17.8	8
20	15.83	33	59.5	19	35.44	56	19.5	14	10.87	32	34.9	19	8.22	44	18.6	14
30	16.16	32	57.6	19	36.00	57	18.1	9	11.19	32	33.0	20	8.66	43	20.0	18
Juni 9	16.48	32	55.7	19	36.57	55	17.2	4	11.51	32	31.0	20	9.09	41	21.8	23
19	16.80	30	53.8	18	37.12	53	16.8	0	11.83	30	29.0	20	9.50	38	24.1	26
29	17.10	28	52.0	16	37.65	49	16.8	5	12.13	28	27.0	19	9.88	35	26.7	30
Juli 9	17.38	25	50.4	15	38.14	43	17.3	9	12.41	24	25.1	18	10.23	30	29.7	33
19	17.63	21	48.9	13	38.57	37	18.2	14	12.65	22	23.3	16	10.53	25	33.0	33
29	17.84	18	47.6	10	38.94	30	19.6	18	12.87	17	21.7	14	10.78	18	36.3	35
Aug. 8	18.02	13	46.6	8	39.24	21	21.4	19	13.04	13	20.3	12	10.96	13	39.8	35
18	18.15	9	45.8	6	39.45	13	23.3	22	13.17	9	19.1	9	11.09	7	43.3	35
28	18.24	4	45.2	4	39.58	5	25.5	23	13.26	5	18.2	8	11.16	0	46.8	34
Sept. 7	18.28	0	44.8	1	39.63	4	27.8	24	13.31	0	17.4	5	11.16	5	50.2	31
17	18.28	4	44.7	0	39.59	12	30.2	23	13.31	3	16.9	3	11.11	10	53.3	29
27	18.24	6	44.7	2	39.47	20	32.5	22	13.28	6	16.6	1	11.01	15	56.2	26
Okt. 7	18.18	9	44.9	4	39.27	24	34.7	20	13.22	9	16.5	0	10.86	19	58.8	22
17	18.09	11	45.3	4	39.03	30	36.7	15	13.13	10	16.5	2	10.67	22	61.0	18
27	17.98	12	45.7	5	38.73	32	38.2	11	13.03	12	16.7	3	10.45	24	62.8	13
Nov. 6	17.86	12	46.2	5	38.41	33	39.3	8	12.91	12	17.0	5	10.21	26	64.1	9
16	17.74	12	46.7	6	38.08	34	40.1	3	12.79	11	17.5	5	9.95	26	65.0	3
26	17.62	11	47.3	5	37.74	33	40.4	3	12.68	11	18.0	6	9.69	26	65.3	2
Dez. 6	17.51	9	47.8	6	37.41	27	40.1	8	12.57	9	18.6	7	9.43	25	65.1	7
16	17.42	7	48.4	5	37.14	24	39.3	13	12.48	8	19.3	6	9.18	24	64.4	12
26	17.35	6	48.9	4	36.90	20	38.0	17	12.40	6	19.9	7	8.94	21	63.2	17
36	17.29		49.3		36.70		36.3		12.34		20.6		8.73		61.5	
Mittl. Ort	14.64		60.8		33.07		37.4		9.79		34.2		8.17		34.1	
sec δ, tg δ	1.010		−0.144		2.043		−1.781		1.000		−0.032		1.617		+1.270	

1913	848) 7 Lacertae. AR.	Δ	Dekl. +	Δ	850) η Aquarii. AR.	Δ	Dekl. −	Δ	852) 10 Lacertae. AR.	Δ	Dekl. +	Δ	855) ζ Pegasi. AR.	Δ	Dekl. +	Δ
	22h 27m		49° 49′		22h 30m		0° 33′		22h 35m		38° 35′		22h 37m		10° 22′	
Jan. 0	40.45	18	73.9	18	52.36	5	64.1	7	19.92	13	55.9	17	6.46	7	34.8	10
10	40.27	14	72.1	22	52.31	4	64.8	6	19.79	10	54.2	19	6.39	5	33.8	11
20	40.13	11	69.9	25	52.27	1	65.4	6	19.69	7	52.3	22	6.34	2	32.7	11
30	40.02	6	67.4	26	52.26	2	66.0	5	19.62	4	50.1	23	6.32	0	31.6	11
Febr. 9	39.96	0	64.8	28	52.28	4	66.5	4	19.58	1	47.8	23	6.32	4	30.5	10
19	39.96	6	62.0	29	52.32	9	66.9	1	19.59	6	45.5	25	6.36	7	29.5	8
März 1	40.02	11	59.1	25	52.41	11	67.0	1	19.65	10	43.0	20	6.43	10	28.7	6
11	40.13	18	56.6	22	52.52	14	66.9	3	19.75	15	41.0	18	6.53	14	28.1	3
21	40.31	23	54.4	18	52.66	18	66.6	6	19.90	20	39.2	14	6.67	17	27.8	0
31	40.54	29	52.6	14	52.84	21	66.0	9	20.10	24	37.8	10	6.84	20	27.8	3
April 10	40.83	32	51.2	9	53.05	24	65.1	11	20.34	28	36.8	5	7.04	24	28.1	7
20	41.15	37	50.3	3	53.29	27	64.0	14	20.62	31	36.3	0	7.28	27	28.8	10
30	41.52	40	50.0	2	53.56	29	62.6	16	20.93	35	36.3	4	7.55	29	29.8	13
Mai 10	41.92	42	50.2	8	53.85	31	61.0	18	21.28	36	36.7	10	7.84	31	31.1	16
20	42.34	42	51.0	12	54.16	32	59.2	19	21.64	37	37.7	14	8.15	32	32.7	19
30	42.76	42	52.2	18	54.48	32	57.3	20	22.01	37	39.1	19	8.47	33	34.6	20
Juni 9	43.18	41	54.0	23	54.80	32	55.3	21	22.38	36	41.0	23	8.80	32	36.6	22
19	43.59	38	56.3	26	55.12	30	53.2	20	22.74	35	43.3	25	9.12	31	38.8	23
29	43.97	34	58.9	29	55.42	29	51.2	20	23.09	31	45.8	28	9.43	28	41.1	22
Juli 9	44.31	31	61.8	32	55.71	26	49.2	18	23.40	28	48.6	30	9.71	26	43.3	23
19	44.62	25	65.0	33	55.97	22	47.4	17	23.68	24	51.6	31	9.97	22	45.6	22
29	44.87	20	68.3	35	56.19	18	45.7	15	23.92	19	54.7	32	10.19	19	47.8	20
Aug. 8	45.07	14	71.8	35	56.37	15	44.2	13	24.11	15	57.9	31	10.38	15	49.8	19
18	45.21	8	75.3	34	56.52	10	42.9	11	24.26	9	61.0	31	10.53	10	51.7	17
28	45.29	2	78.7	33	56.62	6	41.8	8	24.35	5	64.1	28	10.63	6	53.4	15
Sept. 7	45.31	3	82.0	31	56.68	2	41.0	6	24.40	0	66.9	27	10.69	2	54.9	13
17	45.28	9	85.1	29	56.70	2	40.4	4	24.40	5	69.6	25	10.71	1	56.2	10
27	45.19	12	88.0	25	56.68	6	40.0	2	24.35	8	72.1	22	10.70	5	57.2	7
Okt. 7	45.07	17	90.5	22	56.62	7	39.8	0	24.27	12	74.3	18	10.65	8	57.9	6
17	44.90	19	92.7	19	56.55	10	39.8	1	24.15	14	76.1	15	10.57	9	58.5	3
27	44.71	23	94.6	13	56.45	10	39.9	3	24.01	16	77.6	10	10.48	11	58.8	0
Nov. 6	44.48	24	95.9	9	56.35	12	40.2	4	23.85	17	78.6	7	10.37	11	58.8	1
16	44.24	24	96.8	4	56.23	11	40.6	6	23.68	18	79.3	2	10.26	12	58.7	3
26	44.00	24	97.2	1	56.12	11	41.2	6	23.50	18	79.5	3	10.14	11	58.4	6
Dez. 6	43.76	24	97.1	7	56.01	10	41.8	6	23.32	17	79.2	7	10.03	11	57.8	7
16	43.52	22	96.4	11	55.91	8	42.4	7	23.15	16	78.5	10	9.92	9	57.1	9
26	43.30	19	94.3	16	55.83	7	43.1	7	22.99	14	77.5	15	9.83	8	56.2	10
36	43.11		93.7		55.76		43.8		22.85		76.0		9.75		55.2	
Mittl. Ort	42.28		65.6		53.18		58.6		21.32		49.7		7.35		36.7	
sec δ, tg δ	1.550		+1.184		1.000		−0.010		1.279		+0.798		1.017		+0.183	

1913	856) β Gruis.				857) η Pegasi.				859) λ Pegasi.				860) ε Gruis.			
	AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	$22^h\ 37^m$		$47^\circ\ 20'$		$22^h\ 38^m$		$29^\circ\ 45'$		$22^h\ 42^m$		$23^\circ\ 6'$		$22^h\ 43^m$		$51^\circ\ 46'$	
Jan. 0	$28^s.04$	12	$41''.7$	12	$54^s.15$	10	$61''.1$	15	$19^s.30$	9	$29''.3$	14	$17^s.79$	15	$47''.4$	14
10	27.92	8	40.5	15	54.05	8	59.6	17	19.21	6	27.9	15	17.64	11	46.0	17
20	27.84	4	39.0	19	53.97	5	57.9	19	19.15	4	26.4	16	17.53	6	44.3	21
30	27.80	1	37.1	22	53.92	2	56.0	20	19.11	2	24.8	17	17.47	2	42.2	24
Febr. 9	27.79	— 4	34.9	24	53.90	— 1	54.0	20	19.09	— 2	23.1	16	17.45	— 3	39.8	26
19	27.83	10	32.5	29	53.91	6	52.0	20	19.11	6	21.5	17	17.48	9	37.2	31
März 1	(26) 27.93	14	29.6	28	(26) 53.97	10	50.0	16	(27) 19.17	9	19.8	13	(27) 17.57	13	34.1	30
11	28.07	18	26.8	28	54.07	14	48.4	14	19.26	13	18.5	10	17.70	18	31.1	30
21	28.25	23	24.0	28	54.21	18	47.0	10	19.39	18	17.5	6	17.88	24	28.1	30
31	28.48	28	21.2	28	54.39	22	46.0	6	19.57	21	16.9	3	18.12	28	25.1	30
April 10	28.76	31	18.4	27	54.61	26	45.4	2	19.78	24	16.6	0	18.40	33	22.1	28
20	29.07	36	15.7	26	54.87	29	45.2	— 3	20.02	28	16.6	6	18.73	38	19.3	27
30	29.43	38	13.1	24	55.16	31	45.5	8	20.30	30	17.2	9	19.11	41	16.6	25
Mai 10	29.81	42	10.7	21	55.47	34	46.3	11	20.60	32	18.1	13	19.52	44	14.1	21
20	30.23	42	8.6	19	55.81	34	47.4	16	20.92	34	19.4	16	19.96	45	12.0	19
30	30.65	44	6.7	14	56.15	35	49.0	19	21.26	34	21.0	20	20.41	47	10.1	14
Juni 9	31.09	43	5.3	11	56.50	35	50.9	23	21.60	33	23.0	22	20.88	46	8.7	11
19	31.52	42	4.2	8	56.85	32	53.2	25	21.93	32	25.2	25	21.34	45	7.6	6
29	31.94	40	3.4	2	57.17	30	55.7	27	22.25	29	27.7	25	21.79	43	7.0	2
Juli 9	32.34	35	3.2	— 1	57.47	27	58.4	28	22.54	27	30.2	26	22.22	39	6.8	— 3
19	32.69	32	3.3	6	57.74	24	61.2	28	22.81	23	32.8	27	22.61	34	7.1	7
29	33.01	26	3.9	9	57.98	19	64.0	29	23.04	20	35.5	26	22.95	29	7.8	11
Aug. 8	33.27	21	4.8	13	58.17	14	66.9	28	23.24	15	38.1	25	23.24	22	8.9	15
18	33.48	14	6.1	16	58.31	10	69.7	26	23.39	10	40.6	24	23.46	16	10.4	17
28	33.62	8	7.7	17	58.41	6	72.3	25	23.49	6	43.0	22	23.62	10	12.1	20
Sept. 7	33.70	2	9.4	20	58.47	1	74.8	24	23.55	2	45.2	19	23.72	2	14.1	21
17	33.72	— 4	11.4	20	58.48	— 3	77.2	20	23.57	— 2	47.1	17	23.74	— 4	16.2	22
27	33.68	9	13.4	19	58.45	6	79.2	18	23.55	5	48.8	15	23.70	10	18.4	20
Okt. 7	33.59	14	15.3	19	58.39	9	81.0	14	23.50	8	50.3	12	23.60	15	20.4	21
17	33.45	17	17.2	16	58.30	12	82.4	11	23.42	10	51.5	8	23.45	19	22.5	18
27	33.28	19	18.8	14	58.18	13	83.5	8	23.32	12	52.3	6	23.26	22	24.3	15
Nov. 6	33.09	21	20.2	10	58.05	15	84.3	5	23.20	13	52.9	2	23.04	23	25.8	11
16	32.88	22	21.2	7	57.90	15	84.8	0	23.07	13	53.1	— 1	22.81	24	26.9	7
26	32.66	20	21.9	3	57.75	14	84.8	3	22.94	13	53.0	4	22.57	24	27.6	2
Dez. 6	32.46	19	22.2	— 3	57.61	14	84.5	7	22.81	13	52.6	7	22.33	22	27.8	— 2
16	32.27	17	21.9	6	57.47	13	83.8	11	22.68	11	51.9	10	22.11	20	27.6	7
26	32.10	13	21.3	10	57.34	11	82.7	14	22.57	10	50.9	12	21.91	16	26.9	11
36	31.97		20.3		57.23		81.3		22.47		49.7		21.75		25.8	
Mittl. Ort	28.58		24.0		55.32		57.1		20.34		27.0		18.27		28.9	
sec δ, tg δ	1.476		—1.085		1.152		+0.572		1.087		+0.427		1.616		—1.269	

1913	863) ι Cephei. AR.	Diff.	Dekl. +	Diff.	864) λ Aquarii. AR.	Diff.	Dekl. —	Diff.	865) ρ Indi. AR.	Diff.	Dekl. —	Diff.	866) δ Aquarii. AR.	Diff.	Dekl. —	Diff.
	$22^{h}\,46^{m}$		65° 44′		$22^{h}\,48^{m}$		8° 2′		$22^{h}\,48^{m}$		70° 31′		$22^{h}\,50^{m}$		16° 16′	
Jan. 0	31.98	38	46.0	15	3.93	6	41.4	4	36.79	37	100.4	20	1.48	7	71.2	1
10	31.60	34	44.5	21	3.87	5	41.8	3	36.42	30	98.4	25	1.41	5	71.3	0
20	31.26	26	42.4	25	3.82	2	42.1	2	36.12	22	95.9	28	1.36	2	71.3	3
30	31.00	19	39.9	28	3.80	0	42.3	0	35.90	12	93.1	32	1.34	0	71.0	4
Febr. 9	30.81	11	37.1	30	3.80	3	42.3	1	35.78	2	89.9	33	1.34	3	70.6	7
19	30.70	1	34.1	33	3.83	6	42.2	3	35.76	7	86.6	36	1.37	5	69.9	8
März 1	30.69	9	30.8	29	3.89	10	41.9	6	35.83	19	83.0	40	1.42	11	69.1	12
11	30.78	19	27.9	28	3.99	13	41.3	8	36.02	27	79.0	36	1.53	13	67.9	13
21	30.97	29	25.1	24	4.12	16	40.5	11	36.29	37	75.4	35	1.66	16	66.6	15
31	31.26	36	22.7	20	4.28	20	39.4	12	36.66	45	71.9	34	1.82	21	65.1	16
April 10	31.62	45	20.7	16	4.48	23	38.2	15	37.11	54	68.5	31	2.03	23	63.5	18
20	32.07	51	19.1	10	4.71	27	36.7	17	37.65	61	65.4	28	2.26	26	61.7	20
30	32.58	56	18.1	4	4.98	28	35.0	18	38.26	67	62.6	25	2.52	29	59.7	20
Mai 10	33.14	59	17.7	1	5.26	31	33.2	19	38.93	72	60.1	21	2.81	32	57.7	20
20	33.73	60	17.8	8	5.57	32	31.3	20	39.65	75	58.0	16	3.13	32	55.7	21
30	34.33	60	18.6	13	5.89	32	29.3	20	40.40	77	56.4	12	3.45	33	53.6	20
Juni 9	34.93	59	19.9	18	6.21	33	27.3	20	41.17	76	55.2	6	3.78	34	51.6	18
19	35.52	55	21.7	23	6.54	32	25.3	19	41.93	75	54.6	1	4.12	32	49.8	17
29	36.07	50	24.0	28	6.86	29	23.4	18	42.68	70	54.5	4	4.44	31	48.1	15
Juli 9	36.57	44	26.8	31	7.15	27	21.6	16	43.38	65	54.9	9	4.75	28	46.6	13
19	37.01	37	29.9	33	7.42	24	20.0	14	44.03	57	55.8	14	5.03	25	45.3	10
29	37.38	29	33.2	36	7.66	21	18.6	11	44.60	48	57.2	18	5.28	21	44.3	7
Aug. 8	37.67	20	36.8	37	7.87	16	17.5	9	45.08	36	59.0	21	5.49	17	43.6	5
18	37.87	13	40.5	37	8.03	12	16.6	7	45.44	25	61.1	25	5.66	13	43.1	1
28	38.00	4	44.2	37	8.15	8	15.9	4	45.69	13	63.6	26	5.79	8	43.0	0
Sept. 7	38.04	5	47.9	36	8.23	4	15.5	2	45.82	0	66.2	28	5.87	4	43.0	3
17	37.99	13	51.5	35	8.27	0	15.3	1	45.82	11	69.0	27	5.91	0	43.3	5
27	37.86	19	55.0	32	8.27	4	15.4	2	45.71	23	71.7	26	5.91	4	43.8	7
Okt. 7	37.67	27	58.2	29	8.23	7	15.6	3	45.48	32	74.3	23	5.87	6	44.5	7
17	37.40	32	61.1	25	8.16	8	15.9	5	45.16	42	76.6	20	5.81	9	45.2	8
27	37.08	37	63.6	20	8.08	10	16.4	6	44.74	47	78.6	15	5.72	10	46.0	8
Nov. 6	36.71	40	65.6	16	7.98	11	17.0	6	44.27	52	80.1	12	5.62	12	46.8	8
16	36.31	43	67.2	10	7.87	11	17.6	6	43.75	53	81.3	5	5.50	12	47.6	7
26	35.88	44	68.2	4	7.76	11	18.2	6	43.22	54	81.8	0	5.38	11	48.3	6
Dez. 6	35.44	44	68.6	1	7.65	10	18.8	6	42.68	52	81.8	7	5.27	11	48.9	5
16	35.00	43	68.5	8	7.55	9	19.4	5	42.16	47	81.1	12	5.16	9	49.4	4
26	34.57	40	67.7	13	7.46	8	19.9	4	41.69	41	79.9	17	5.07	8	49.8	2
36	34.17		66.4		7.38		20.3		41.28		78.2		4.99		50.0	
Mittl. Ort	34.77		33.4		4.60		34.2		37.26		79.4		2.07		61.5	
sec δ, tg δ	2.434		+2.219		1.010		—0.141		3.001		—2.829		1.042		—0.292	

1913	867) α Pisc. austr. AR.		867) Dekl. −		869) ο Andromed. AR.		869) Dekl. +	
	22h 52m		30° 4′		22h 57m		41° 51′	
	s		″		s		″	
Jan. 0	50.24	8	74.3	4	53.57	15	37.6	15
10	50.16	6	73.9	7	53.42	14	36.1	18
20	50.10	4	73.2	9	53.28	10	34.3	21
30	50.06	0	72.3	13	53.18	7	32.2	23
Febr. 9	50.06	2	71.0	14	53.11	2	29.9	23
19	50.08	6	69.6	17	53.09	2	27.6	24
März 1	50.14	11	67.9	21	53.11	8	25.2	24
11	[2] 50.25	14	65.8	20	[3] 53.19	12	22.8	20
21	50.39	17	63.8	22	53.31	18	20.8	16
31	50.56	21	61.6	23	53.49	22	19.2	12
April 10	50.77	25	59.3	23	53.71	27	18.0	8
20	51.02	29	57.0	24	53.98	31	17.2	3
30	51.31	31	54.6	23	54.29	35	16.9	2
Mai 10	51.62	33	52.3	22	54.64	37	17.1	7
20	51.95	36	50.1	21	55.01	38	17.8	11
30	52.31	36	48.0	19	55.39	39	18.9	17
Juni 9	52.67	36	46.1	16	55.78	38	20.6	20
19	53.03	35	44.5	13	56.16	37	22.6	24
29	53.38	34	43.2	11	56.53	34	25.0	27
Juli 9	53.72	31	42.1	7	56.87	31	27.7	29
19	54.03	27	41.4	3	57.18	27	30.6	31
29	54.30	23	41.1	0	57.45	23	33.7	32
Aug. 8	54.53	19	41.1	3	57.68	17	36.9	32
18	54.72	14	41.4	6	57.85	13	40.1	31
28	54.86	9	42.0	9	57.98	8	43.2	31
Sept. 7	54.95	4	42.9	11	58.06	2	46.3	29
17	54.99	0	44.0	12	58.08	2	49.2	26
27	54.99	4	45.2	14	58.06	6	51.8	25
Okt. 7	54.95	8	46.6	13	58.00	10	54.3	21
17	54.87	10	47.9	13	57.90	12	56.4	17
27	54.77	13	49.2	12	57.78	16	58.1	14
Nov. 6	54.64	13	50.4	11	57.62	17	59.5	10
16	54.51	15	51.5	8	57.45	18	60.5	5
26	54.36	13	52.3	6	57.27	18	61.0	0
Dez. 6	54.23	13	52.9	3	57.09	19	61.0	4
16	54.10	12	53.2	0	56.90	18	60.6	9
26	53.98	9	53.2	3	56.72	16	59.7	13
36	53.89		52.9		56.56		58.4	
Mittl. Ort	50.73		60.7		54.92		29.2	
sec δ, tg δ	1.155		−0.579		1.343		+0.896	

1913	870) β Pegasi. AR.		870) Dekl. +		871) α Pegasi. AR.		871) Dekl. +	
	22h 59m		27° 36′		23h 0m		14° 44′	
	s		″		s		″	
Jan. 0	32.26	11	42.7	13	24.73	8	13.4	11
10	32.15	8	41.4	15	24.65	6	12.3	12
20	32.07	7	39.9	17	24.59	5	11.1	12
30	32.00	4	38.2	18	24.54	2	9.9	12
Febr. 9	31.96	0	36.4	17	24.52	0	8.7	11
19	31.96	3	34.7	17	24.52	4	7.6	11
März 1	31.99	8	33.0	17	24.56	8	6.5	9
11	[1] 32.07	12	31.3	13	[4] 24.64	12	5.6	5
21	32.19	16	30.0	9	24.76	15	5.1	3
31	32.35	20	29.1	6	24.91	19	4.8	1
April 10	32.55	24	28.5	2	25.10	22	4.9	4
20	32.79	27	28.3	3	25.32	26	5.3	8
30	33.06	30	28.6	7	25.58	28	6.1	11
Mai 10	33.36	33	29.3	11	25.86	31	7.2	15
20	33.69	34	30.4	14	26.17	32	8.7	17
30	34.03	35	31.8	18	26.49	33	10.4	20
Juni 9	34.38	34	33.6	22	26.82	33	12.4	21
19	34.72	33	35.8	24	27.15	31	14.5	23
29	35.05	32	38.2	25	27.46	30	16.8	23
Juli 9	35.37	28	40.7	27	27.76	28	19.1	24
19	35.65	25	43.4	28	28.04	25	21.5	24
29	35.90	21	46.2	27	28.29	20	23.9	22
Aug. 8	36.11	17	48.9	27	28.49	17	26.1	21
18	36.28	12	51.6	26	28.66	12	28.2	20
28	36.40	8	54.2	24	28.78	9	30.2	17
Sept. 7	36.48	4	56.6	23	28.87	4	31.9	15
17	36.52	0	58.9	20	28.91	1	33.4	13
27	36.52	4	60.9	17	28.92	3	34.7	11
Okt. 7	36.48	6	62.6	15	28.89	6	35.8	8
17	36.42	10	64.1	11	28.83	7	36.6	5
27	36.32	11	65.2	8	28.76	10	37.1	3
Nov. 6	36.21	13	66.0	5	28.66	11	37.4	1
16	36.08	13	66.5	1	28.55	11	37.5	2
26	35.95	14	66.6	2	28.44	12	37.3	4
Dez. 6	35.81	13	66.4	5	28.32	11	36.9	7
16	35.68	13	65.9	9	28.21	10	36.2	8
26	35.55	11	65.0	12	28.11	9	35.4	9
36	35.44		63.8		28.02		34.5	
Mittl. Ort	33.28		38.2		25.56		12.9	
sec δ, tg δ	1.128		+0.523		1.034		+0.263	

1913	872) ϑ Gruis. AR.	Δ	Dekl. —	Δ	873) c^2 Aquarii. AR.	Δ	Dekl. —	Δ	874) π Cephei. AR.	Δ	Dekl. +	Δ	875) Br. 3077. AR.	Δ	Dekl. +	Δ
	$23^h\ 1^m$		43° 59'		$23^h\ 4^m$		21° 38'		$23^h\ 5^m$		74° 54'		$23^h\ 9^m$		56° 41'	
Jan. 0	58.56	13	43.0	10	48.11	8	52.4	0	3.49	69	76.5	13	3.45	26	28.6	14
10	58.43	10	42.0	12	48.03	7	52.4	3	2.80	63	75.2	18	3.19	22	27.2	18
20	58.33	7	40.8	17	47.96	4	52.1	5	2.17	53	73.4	22	2.97	19	25.4	22
30	58.26	3	39.1	19	47.92	1	51.6	8	1.64	41	71.2	27	2.78	14	23.2	25
Febr. 9	58.23	0	37.2	22	47.91	1	50.8	9	1.23	28	68.5	29	2.64	9	20.7	27
19	58.23	5	35.0	24	47.92	4	49.9	12	0.95	14	65.6	31	2.55	2	18.0	28
März 1	58.28	10	32.6	29	47.96	9	48.7	16	0.81	4	62.5	34	2.53	6	15.2	30
11	58.38	14	29.7	28	48.05	12	47.1	16	0.85	20	59.1	30	2.59	13	12.2	25
21	58.52	18	26.9	28	48.17	15	45.5	18	1.05	34	56.1	27	2.72	21	9.7	23
31	58.70	23	24.1	29	48.32	19	43.7	19	1.39	49	53.4	23	2.93	27	7.4	18
April 10	58.93	27	21.2	28	48.51	23	41.8	21	1.88	62	51.1	19	3.20	33	5.6	15
20	59.20	32	18.4	27	48.74	26	39.7	22	2.50	72	49.2	15	3.53	39	4.1	9
30	59.52	34	15.7	26	49.00	29	37.5	22	3.22	81	47.7	9	3.92	44	3.2	4
Mai 10	59.86	37	13.1	23	49.29	31	35.3	22	4.03	86	46.8	3	4.36	46	2.8	2
20	60.23	41	10.8	20	49.60	33	33.1	21	4.89	89	46.5	3	4.82	49	3.0	7
30	60.64	41	8.8	19	49.93	34	31.0	20	5.78	90	46.8	9	5.31	50	3.7	12
Juni 9	61.05	41	6.9	15	50.27	34	29.0	19	6.68	87	47.7	15	5.81	48	4.9	18
19	61.46	41	5.4	10	50.61	34	27.1	16	7.55	83	49.2	20	6.29	47	6.7	22
29	61.87	39	4.4	7	50.95	32	25.5	14	8.38	77	51.2	24	6.76	44	8.9	26
Juli 9	62.26	36	3.7	2	51.27	30	24.1	11	9.15	68	53.6	28	7.20	39	11.5	29
19	62.62	32	3.5	3	51.57	27	23.0	9	9.83	58	56.4	32	7.59	35	14.4	32
29	62.94	27	3.8	6	51.84	23	22.1	5	10.41	47	59.6	34	7.94	29	17.6	34
Aug. 8	63.21	23	4.4	10	52.07	18	21.6	2	10.88	34	63.0	38	8.23	23	21.0	36
18	63.44	16	5.4	13	52.25	15	21.4	1	11.22	23	66.8	37	8.46	17	24.6	35
28	63.60	11	6.7	16	52.40	10	21.5	4	11.45	9	70.5	39	8.63	10	28.1	36
Sept. 7	63.71	6	8.3	18	52.50	5	21.9	7	11.54	3	74.4	38	8.73	3	31.7	34
17	63.77	1	10.1	19	52.55	1	22.6	8	11.51	16	78.2	37	8.76	2	35.1	33
27	63.76	6	12.0	19	52.56	2	23.4	9	11.35	28	81.9	35	8.74	8	38.4	31
Okt. 7	63.70	9	13.9	19	52.54	6	24.3	10	11.07	39	85.4	32	8.66	13	41.5	27
17	63.61	14	15.8	18	52.48	8	25.3	11	10.68	49	88.6	29	8.53	18	44.2	24
27	63.47	16	17.6	15	52.40	10	26.4	10	10.19	57	91.5	26	8.35	21	46.6	20
Nov. 6	63.31	18	19.1	13	52.30	12	27.4	9	9.62	65	94.1	20	8.14	25	48.6	16
16	63.13	19	20.4	9	52.18	12	28.3	8	8.97	70	96.1	15	7.89	27	50.2	11
26	62.94	19	21.3	6	52.06	12	29.1	7	8.27	75	97.6	9	7.62	28	51.3	5
Dez. 6	62.75	18	21.9	1	51.94	12	29.8	5	7.52	75	98.5	3	7.34	28	51.8	1
16	62.57	17	22.0	3	51.82	10	30.3	3	6.77	75	98.8	3	7.06	29	51.7	6
26	62.40	15	21.7	7	51.72	10	30.6	1	6.02	73	98.5	9	6.77	26	51.1	11
36	62.25		21.0		51.62		30.7		5.29		97.6		6.51		50.0	
Mittl. Ort	58.90		26.1		48.57		41.4		7.62		61.4		5.31		16.1	
sec δ, tg δ	1.390		−0.965		1.076		−0.397		3.842		+3.710		1.821		+1.522	

1913	877) γ Tucanae. AR.		877) Dekl. −		879) γ Sculptoris. AR.		879) Dekl. −		880) τ Pegasi. AR.		880) Dekl. +		882) 4 Cassiopejae. AR.		882) Dekl. +	
	$23^h\ 12^m$		58° 42′		$23^h\ 14^m$		33° 0′		$23^h\ 16^m$		23° 15′		$23^h\ 20^m$		61° 48′	
Jan. 0	21.32	23	65.8	13	7.40	10	36.2	4	18.88	10	54.0	11	55.98	33	32.2	12
10	21.09	19	64.5	18	7.30	9	35.8	8	18.78	9	52.9	14	55.65	30	31.0	17
20	20.90	15	62.7	23	7.21	6	35.0	10	18.69	7	51.5	14	55.35	26	29.3	21
30	20.75	9	60.4	26	7.15	3	34.0	13	18.62	5	50.1	15	55.09	21	27.2	25
Febr. 9	20.66	4	57.8	29	7.12	0	32.7	16	18.57	1	48.6	16	54.88	14	24.7	27
19	20.62	2	54.9	31	7.12	3	31.1	19	18.56	1	47.0	14	54.74	6	22.0	29
März 1	20.64	9	51.8	35	7.15	8	29.2	22	18.57	7	45.6	14	54.68	3	19.1	31
11	20.73	14	48.3	34	7.23	11	27.0	22	18.64	10	44.2	10	54.71	10	16.0	27
21	20.87	21	44.9	34	7.34	15	24.8	25	18.74	14	43.2	8	54.81	19	13.3	24
31	21.08	27	41.5	33	7.49	19	22.3	25	18.88	17	42.4	4	55.00	28	10.9	22
April 10	21.35	33	38.2	33	7.68	24	19.8	25	19.05	22	42.0	0	55.28	35	8.7	17
20	21.68	39	34.9	30	7.92	27	17.3	26	19.27	26	42.0	3	55.63	41	7.0	12
30	22.07	43	31.9	27	8.19	30	14.7	24	19.53	29	42.3	7	56.04	47	5.8	7
Mai 10	22.50	47	29.2	25	8.49	33	12.3	24	19.82	31	43.0	12	56.51	51	5.1	1
20	22.97	50	26.7	21	8.82	35	9.9	22	20.13	33	44.2	15	57.02	54	5.0	4
30	23.47	53	24.6	17	9.17	37	7.7	21	20.46	34	45.7	18	57.56	54	5.4	10
Juni 9	24.00	53	22.9	12	9.54	36	5.6	17	20.80	34	47.5	20	58.10	54	6.4	15
19	24.53	52	21.7	8	9.90	37	3.9	15	21.14	33	49.5	23	58.64	53	7.9	21
29	25.05	50	20.9	2	10.27	35	2.4	11	21.47	31	51.8	25	59.17	49	10.0	24
Juli 9	25.55	47	20.7	2	10.62	33	1.3	7	21.78	29	54.3	25	59.66	45	12.4	28
19	26.02	42	20.9	7	10.95	29	0.6	4	22.07	26	56.8	26	60.11	40	15.2	31
29	26.44	36	21.6	12	11.24	26	0.2	0	22.33	23	59.4	26	60.51	33	18.3	34
Aug. 8	26.80	30	22.8	16	11.50	21	0.2	4	22.56	18	62.0	24	60.84	27	21.7	35
18	27.10	22	24.4	20	11.71	16	0.6	8	22.74	14	64.4	24	61.11	19	25.2	37
28	27.32	15	26.4	22	11.87	12	1.4	10	22.88	10	66.8	22	61.30	13	28.9	36
Sept. 7	27.47	7	28.6	24	11.99	6	2.4	12	22.98	6	69.0	20	61.43	5	32.5	36
17	27.54	1	31.0	24	12.05	2	3.6	14	23.04	2	71.0	18	61.48	2	36.1	35
27	27.53	8	33.4	25	12.07	2	5.0	16	23.06	2	72.8	16	61.46	9	39.6	32
Okt. 7	27.45	16	35.9	23	12.05	7	6.6	15	23.04	4	74.4	13	61.37	14	42.8	30
17	27.29	20	38.2	22	11.98	9	8.1	15	23.00	7	75.7	10	61.23	20	45.8	27
27	27.09	26	40.4	18	11.89	12	9.6	14	22.93	9	76.7	7	61.03	25	48.5	23
Nov. 6	26.83	28	42.2	14	11.77	13	11.0	13	22.84	11	77.4	4	60.78	29	50.8	18
16	26.55	30	43.6	10	11.64	15	12.3	10	22.73	12	77.8	1	60.49	32	52.6	14
26	26.25	31	44.6	4	11.49	14	13.3	7	22.61	13	77.9	2	60.17	34	54.0	8
Dez. 6	25.94	29	45.0	0	11.35	15	14.0	4	22.48	12	77.7	5	59.83	35	54.8	2
16	25.65	28	45.0	6	11.20	13	14.4	1	22.36	12	77.2	8	59.48	35	55.0	4
26	25.37	26	44.4	12	11.07	11	14.5	3	22.24	11	76.4	10	59.13	34	54.6	9
36	25.11		43.2		10.96		14.2		22.13		75.4		58.79		53.7	
Mittl. Ort	21.47		46.3		7.73		22.2		19.73		50.1		58.04		18.0	
sec δ, tg δ	1.925		−1.645		1.192		−0.649		1.089		+0.430		2.116		+1.865	

1913	884) κ Piscium. AR.		Dekl. +		885) 70 Pegasi. AR.		Dekl. +		891) ι Andromed. AR.		Dekl. +		892) ι Piscium. AR.		Dekl. +	
	$23^h 22^m$		0° 46′		$23^h 24^m$		12° 16′		$23^h 33^m$		42° 47′		$23^h 35^m$		5° 9′	
Jan. 0	27.80	8	41.8	7	44.55	9	50.1	9	50.79	17	21.2	11	27.96	9	15.2	7
10	27.72	7	41.1	6	44.46	8	49.2	10	50.62	16	20.1	16	27.87	7	14.5	8
20	27.65	5	40.5	6	44.38	6	48.2	10	50.46	13	18.5	18	27.80	7	13.7	7
30	27.60	4	39.9	5	44.32	4	47.2	10	50.33	11	16.7	20	27.73	4	13.0	7
Febr. 9	27.56	0	39.4	3	44.28	1	46.2	10	50.22	7	14.7	22	27.69	2	12.3	6
19	27.56	2	39.1	2	44.27	1	45.2	8	50.15	3	12.5	23	27.67	1	11.7	4
März 1	27.58	6	38.9	0	44.28	5	44.4	6	50.12	3	10.2	22	27.68	4	11.3	3
11	27.64	9	38.9	3	44.33	10	43.8	5	50.15	9	8.0	22	27.72	8	11.0	0
21	27.73	13	39.2	6	44.43	12	43.3	1	50.24	13	5.8	18	27.80	12	11.0	3
31	27.86	16	39.8	8	44.55	17	43.2	1	50.37	19	4.0	15	27.92	15	11.3	6
April 10	28.02	20	40.6	11	44.72	20	43.3	5	50.56	23	2.5	10	28.07	20	11.9	8
20	28.22	25	41.7	13	44.92	24	43.8	8	50.79	29	1.5	6	28.27	23	12.7	11
30	28.47	26	43.0	16	45.16	27	44.6	12	51.08	33	0.9	1	28.50	26	13.8	14
Mai 10	28.73	29	44.6	17	45.43	30	45.8	14	51.41	36	0.8	3	28.76	28	15.2	16
20	29.02	31	46.3	20	45.73	31	47.2	17	51.77	38	1.1	9	29.04	31	16.8	18
30	29.33	32	48.3	20	46.04	32	48.9	19	52.15	39	2.0	12	29.35	32	18.6	20
Juni 9	29.65	33	50.3	21	46.36	33	50.8	21	52.54	40	3.2	17	29.67	33	20.6	21
19	29.98	32	52.4	21	46.69	33	52.9	22	52.94	39	4.9	22	30.00	32	22.7	21
29	30.30	31	54.5	21	47.02	31	55.1	23	53.33	37	7.1	24	30.32	31	24.8	22
Juli 9	30.61	28	56.6	19	47.33	28	57.4	23	53.70	34	9.5	27	30.63	29	27.0	20
19	30.89	26	58.5	18	47.61	26	59.7	22	54.04	32	12.2	29	30.92	27	29.0	20
29	31.15	23	60.3	17	47.87	23	61.9	21	54.36	27	15.1	31	31.19	23	31.0	18
Aug. 8	31.38	19	62.0	14	48.10	19	64.0	20	54.63	22	18.2	31	31.42	20	32.8	17
18	31.57	14	63.4	12	48.29	15	66.0	18	54.85	17	21.3	31	31.62	16	34.5	14
28	31.71	11	64.6	10	48.44	11	67.8	17	55.02	13	24.4	31	31.78	13	35.9	12
Sept. 7	31.82	7	65.6	7	48.55	7	69.5	14	55.15	8	27.5	29	31.91	8	37.1	10
17	31.89	3	66.3	5	48.62	3	70.9	12	55.23	3	30.4	28	31.99	5	38.1	8
27	31.92	0	66.8	2	48.65	0	72.1	9	55.26	1	33.2	26	32.04	0	38.9	5
Okt. 7	31.92	3	67.0	1	48.65	3	73.0	7	55.25	5	35.8	23	32.04	2	39.4	3
17	31.89	6	67.1	1	48.62	6	73.7	5	55.20	9	38.1	20	32.02	4	39.7	1
27	31.83	8	67.0	2	48.56	8	74.2	2	55.11	12	40.1	17	31.98	7	39.8	1
Nov. 6	31.75	8	66.8	4	48.48	9	74.4	1	54.99	14	41.8	12	31.91	8	39.7	2
16	31.67	10	66.4	5	48.39	10	74.5	2	54.85	16	43.0	9	31.83	9	39.5	4
26	31.57	10	65.9	6	48.29	11	74.3	4	54.69	17	43.9	4	31.74	10	39.1	5
Dez. 6	31.47	11	65.3	6	48.18	10	73.9	5	54.52	18	44.3	0	31.64	10	38.6	6
16	31.36	9	64.7	6	48.08	10	73.4	7	54.34	18	44.3	5	31.54	10	38.0	7
26	31.27	9	64.1	7	47.98	10	72.7	9	54.16	18	43.8	9	31.44	9	37.3	7
36	31.18		63.4		47.88		71.8		53.98		42.9		31.35		36.6	
Mittl. Ort	28.35		45.0		45.21		49.4		51.92		10.6		28.48		16.5	
sec δ, tg δ	1.000		+0.014		1.023		+0.218		1.363		+0.925		1.004		+0.090	

1913	893) γ Cephei. AR.		Dekl. +		894) ω² Aquarii. AR.		Dekl. —		895) 41 H. Cephei. AR.		Dekl. +		896) Lac. δ Sculpt. AR.		Dekl. —	
	$23^h\,35^m$		77° 8′		$23^h\,38^m$		15° 1′		$23^h\,43^m$		67° 19′		$23^h\,44^m$		28° 36′	
Jan. 0	41.88	86	65.6	9	12.39	9	41.7	3	42.28	45	40.6	8	23.61	12	53.3	0
10	41.02	81	64.7	13	12.30	8	42.0	1	41.83	42	39.8	14	23.49	10	53.3	4
20	40.21	71	63.4	19	12.22	7	42.1	2	41.41	37	38.4	19	23.39	8	52.9	7
30	39.50	60	61.5	24	12.15	4	41.9	3	41.04	32	36.5	23	23.31	6	52.2	10
Febr. 9	38.90	45	59.1	26	12.11	2	41.6	5	40.72	24	34.2	26	23.25	3	51.2	13
19	38.45	29	56.5	30	12.09	1	41.1	8	40.48	15	31.6	28	23.22	0	49.9	16
März 1	38.16	11	53.5	30	12.10	4	40.3	10	40.33	5	28.8	29	23.22	3	48.3	18
11	38.05	9	50.5	33	12.14	8	39.3	14	40.28	6	25.9	32	23.25	8	46.5	22
21	38.14	28	47.2	29	12.22	11	37.9	15	40.34	17	22.7	27	23.33	11	44.3	23
31	38.42	45	44.3	25	12.33	16	36.4	17	40.51	28	20.0	24	23.44	15	42.0	24
April 10	38.87	62	41.8	23	12.49	19	34.7	18	40.79	37	17.6	20	23.59	20	39.6	24
20	39.49	75	39.5	18	12.68	22	32.9	21	41.16	46	15.6	16	23.79	23	37.2	26
30	40.24	87	37.7	12	12.90	27	30.8	21	41.62	53	14.0	11	24.02	27	34.6	25
Mai 10	41.11	96	36.5	8	13.17	28	28.7	22	42.15	59	12.9	6	24.29	30	32.1	25
20	42.07	102	35.7	1	13.45	31	26.5	22	42.74	63	12.3	0	24.59	32	29.6	24
30	43.09	104	35.6	5	13.76	33	24.3	21	43.37	64	12.3	6	24.91	35	27.2	23
Juni 9	44.13	105	36.1	10	14.09	33	22.2	21	44.01	66	12.9	12	25.26	35	24.9	20
19	45.18	100	37.1	15	14.42	33	20.1	20	44.67	64	14.1	16	25.61	36	22.9	17
29	46.18	95	38.6	21	14.75	32	18.1	17	45.31	61	15.7	21	25.97	35	21.2	15
Juli 9	47.13	87	40.7	25	15.07	31	16.4	15	45.92	56	17.8	26	26.32	33	19.7	11
19	48.00	77	43.2	29	15.38	28	14.9	13	46.48	51	20.4	29	26.65	30	18.6	7
29	48.77	66	46.1	32	15.66	24	13.6	9	46.99	44	23.3	32	26.95	27	17.9	4
Aug. 8	49.43	53	49.3	35	15.90	21	12.7	6	47.43	36	26.5	35	27.22	23	17.5	1
18	49.96	40	52.8	37	16.11	18	12.1	4	47.79	28	30.0	36	27.45	18	17.6	3
28	50.36	24	56.5	38	16.29	13	11.7	0	48.07	20	33.6	37	27.63	15	17.9	7
Sept. 7	50.60	10	60.3	39	16.42	8	11.7	2	48.27	12	37.3	37	27.78	10	18.6	10
17	50.70	4	64.2	38	16.50	5	11.9	4	48.39	3	41.0	36	27.88	5	19.6	12
27	50.66	19	68.0	37	16.55	1	12.3	7	48.42	6	44.6	36	27.93	1	20.8	14
Okt. 7	50.47	33	71.7	35	16.56	2	13.0	8	48.36	14	48.2	33	27.94	2	22.2	15
17	50.14	45	75.2	32	16.54	5	13.8	9	48.22	20	51.5	30	27.92	6	23.7	15
27	49.69	57	78.4	29	16.49	8	14.7	9	48.02	28	54.5	26	27.86	9	25.2	14
Nov. 6	49.12	68	81.3	24	16.41	9	15.6	9	47.74	33	57.1	23	27.77	11	26.6	13
16	48.44	76	83.7	20	16.32	10	16.5	9	47.41	38	59.4	17	27.66	12	27.9	12
26	47.68	83	85.7	14	16.22	10	17.4	8	47.03	42	61.1	13	27.54	13	29.1	9
Dez. 6	46.85	87	87.1	7	16.12	11	18.2	7	46.61	45	62.4	6	27.41	13	30.0	7
16	45.98	89	87.8	2	16.01	10	18.9	5	46.16	45	63.0	1	27.28	13	30.7	4
26	45.09	88	88.0	5	15.91	11	19.4	4	45.71	46	63.1	6	27.15	12	31.1	1
36	44.21		87.5		15.80		19.8		45.25		62.5		27.03		31.2	
Mittl. Ort	46.03		48.3		12.71		33.7		44.54		24.2		23.76		41.4	
sec δ, tg δ	4.494		+4.382		1.036		−0.268		2.794		+2.393		1.139		−0.545	

1913	898) φ Pegasi. AR.	Dekl. +	902) ω Piscium. AR.	Dekl. +	903) ε Tucanae. AR.	Dekl. —
	$23^h 48^m$	18° 38′	$23^h 54^m$	6° 22′	$23^h 55^m$	66° 3′
Jan. 0	2.99	17.2	50.14	53.8	24.70	60.2
	10	9	9	7	39	12
10	2.89	16.3	50.05	53.1	24.31	59.0
	10	10	9	8	35	17
20	2.79	15.3	49.96	52.3	23.96	57.3
	9	12	8	7	31	21
30	2.70	14.1	49.88	51.6	23.65	55.2
	6	12	6	7	23	26
Febr. 9	2.64	12.9	49.82	50.9	23.42	52.6
	4	12	3	6	20	29
19	2.60	11.7	49.79	50.3	23.22	49.7
	1	11	2	5	11	33
März 1	2.59	10.6	49.77	49.8	23.11	46.4
	2	10	2	2	4	34
11	2.61	9.6	49.79	49.6	23.07	43.0
	7	9	7	1	5	40
21	[17] 2.68	8.7	[19] 49.86	49.5	[19] 23.12	39.0
	10	5	9	2	13	37
31	2.78	8.2	49.95	49.7	23.25	35.3
	15	3	14	5	22	37
April 10	2.93	7.9	50.09	50.2	23.47	31.6
	18	1	18	7	30	36
20	3.11	8.0	50.27	50.9	23.77	28.0
	23	5	21	11	37	34
30	3.34	8.5	50.48	52.0	24.14	24.6
	27	8	25	13	44	32
Mai 10	3.61	9.3	50.73	53.3	24.58	21.4
	29	11	27	15	51	29
20	3.90	10.4	51.00	54.8	25.09	18.5
	31	15	30	18	56	25
30	4.21	11.9	51.30	56.6	25.65	16.0
	33	17	32	19	59	20
Juni 9	4.54	13.6	51.62	58.5	26.24	14.0
	33	20	33	21	63	16
19	4.87	15.6	51.95	60.6	26.87	12.4
	34	21	32	21	63	11
29	5.21	17.7	52.27	62.7	27.50	11.3
	32	23	32	22	63	6
Juli 9	5.53	20.0	52.59	64.9	28.13	10.7
	31	24	30	21	60	0
19	5.84	22.4	52.89	67.0	28.73	10.7
	27	23	28	20	56	5
29	6.11	24.7	53.17	69.0	29.29	11.2
	25	24	25	19	50	11
Aug. 8	6.36	27.1	53.42	70.9	29.79	12.3
	21	22	21	17	43	15
18	6.57	29.3	53.63	72.6	30.22	13.8
	18	21	18	15	36	20
28	6.75	31.4	53.81	74.1	30.58	15.8
	13	20	14	13	26	23
Sept. 7	6.88	33.4	53.95	75.4	30.84	18.1
	10	17	10	11	16	26
17	6.98	35.1	54.05	76.5	31.00	20.7
	5	16	7	8	6	27
27	7.03	36.7	54.12	77.3	31.06	23.4
	2	14	3	6	4	28
Okt. 7	7.05	38.1	54.15	77.9	31.02	26.2
	1	10	1	4	13	28
17	7.04	39.1	54.14	78.3	30.89	29.0
	3	9	2	2	21	25
27	7.01	40.0	54.12	78.5	30.68	31.5
	7	6	5	0	28	23
Nov. 6	6.94	40.6	54.07	78.5	30.40	33.8
	8	3	7	2	35	19
16	6.86	40.9	54.00	78.3	30.05	35.7
	9	1	9	3	39	15
26	6.77	41.0	53.91	78.0	29.66	37.2
	11	1	9	4	41	9
Dez. 6	6.66	40.9	53.82	77.6	29.25	38.1
	11	4	10	6	43	3
16	6.55	40.5	53.72	77.0	28.82	38.4
	11	6	10	7	43	2
26	6.44	39.9	53.62	76.3	28.39	38.2
	11	9	10	6	41	8
36	6.33	39.0	53.52	75.7	27.98	37.4
Mittl. Ort	3.59	13.3	50.57	53.9	24.12	40.2
sec δ, tg δ	1.055	+0.337	1.006	+0.112	2.464	−2.252

Allgemeine Präzession $= 50''.259$

$$A = t - 0.02526 \sin 2\odot + 0.00293 \sin(\odot + 81^\circ 47') - 0.34213 \sin \Omega + 0.00409 \sin 2\Omega$$

$$[A' = - 0.00405 \sin 2 ☾ + 0.00134 \sin(☾ - 163^\circ 40')]$$

$$B = - 0''.5519 \cos 2\odot - 0.0092 \cos(\odot + 281^\circ 26') - 9.2100 \cos \Omega + 0.0895 \cos 2\Omega$$

$$[B' = - 0.0884 \cos 2 ☾]$$

$$C = - 20''.47 \cos \odot \cos \varepsilon$$

$$D = - 20''.47 \sin \odot$$

$$E = - 0''.0031 \sin 2\odot - 0.0419 \sin \Omega + 0.0014 \sin 2\Omega$$

$$a = 46''.0886 + 20''.0457 \sin \alpha \operatorname{tg} \delta \qquad a' = 20''.0457 \cos \alpha$$

$$b = \cos \alpha \operatorname{tg} \delta \qquad b' = - \sin \alpha$$

$$c = \cos \alpha \sec \delta \qquad c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$$

$$d = \sin \alpha \sec \delta \qquad d' = \cos \alpha \sin \delta$$

$\odot$ = wahre Länge der Sonne

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik

☾ = mittlere Länge des Mondes

m, m' = jährliche Eigenbewegung in AR. und Dekl.

t = Zeit seit Anfang des Jahres, in Teilen des Jahres ausgedrückt.

$$\text{Scheinb. AR.} = \text{AR. } 1913.0 + tm + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$

$$\text{Scheinb. Dekl.} = \text{Dekl. } 1913.0 + tm' + Aa' + Bb' + Cc' + Dd' \quad + [A'a' + B'b']$$

Setzt man

$$f = 46''.0886\, A + E \qquad h \sin H = C$$

$$g \cos G = 20''.0457\, A \qquad h \cos H = D$$

$$g \sin G = B \qquad i = C \operatorname{tg} \varepsilon$$

$$[f' = 46''.0886\, A']$$

$$[g' \cos G' = 20''.0457\, A']$$

$$[g' \sin G' = B'],$$

so wird

$$\text{Scheinb. AR.} = \text{AR. } 1913.0 + tm + f + g \sin(G + \alpha) \operatorname{tg} \delta + h \sin(H + \alpha) \sec \delta + [f' + g' \sin(G' + \alpha) \operatorname{tg} \delta]$$

$$\text{Scheinb. Dekl.} = \text{Dekl. } 1913.0 + tm' + g \cos(G + \alpha) + h \cos(H + \alpha) \sin \delta + i \cos \delta + [g' \cos(G' + \alpha)]$$

Korrektion für die tägliche Aberration, wenn Θ die Sternzeit, φ die Polhöhe ist:

$$\Delta\alpha = + 0^s.0213 \cos \varphi \cos(\Theta - \alpha) \sec \delta$$

$$\Delta\delta = + 0''.320 \cos \varphi \sin(\Theta - \alpha) \sin \delta.$$

Konstanten für die Sternzeitepochen

$18^h\ 40^m$ des Normalmeridians oder $6^h\ 39^m$ Berlin,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D	E
1913 Jan.	0.50	0.000	8.5591_n	0.9301_n	0.5115_n	1.3045	0.00
	10.47	0.027	7.3729	0.9356_n	0.8103_n	1.2838	0.00
	20.44	0.055	8.5898	0.9436_n	0.9763_n	1.2474	0.00
	30.42	0.082	8.8612	0.9531_n	1.0855_n	1.1927	0.00
Febr.	9.39	0.109	9.0141	0.9628_n	1.1612_n	1.1144	0.00
	19.36	0.137	9.1167	0.9717_n	1.2138_n	1.0022	0.00
März	1.33	0.164	9.1922	0.9787_n	1.2483_n	0.8320	0.00
	11.31	0.191	9.2518	0.9832_n	1.2678_n	0.5242	0.00
	21.28	0.218	9.3020	0.9849_n	1.2737_n	9.2713_n	0.00
	31.25	0.246	9.3470	0.9835_n	1.2665_n	0.5673_n	0.00
April	10.23	0.273	9.3896	0.9794_n	1.2461_n	0.8494_n	0.00
	20.20	0.300	9.4314	0.9731_n	1.2114_n	1.0096_n	0.00
	30.17	0.328	9.4730	0.9651_n	1.1601_n	1.1161_n	0.00
Mai	10.14	0.355	9.5147	0.9564_n	1.0878_n	1.1910_n	0.00
	20.12	0.382	9.5560	0.9480_n	0.9864_n	1.2439_n	0.00
	30.09	0.410	9.5965	0.9408_n	0.8377_n	1.2798_n	0.00
Juni	9.06	0.437	9.6353	0.9357_n	0.5898_n	1.3016_n	0.00
	19.04	0.464	9.6719	0.9334_n	9.9003_n	1.3107_n	0.00
	29.01	0.491	9.7059	0.9340_n	0.3648	1.3078_n	0.00
Juli	8.98	0.519	9.7369	0.9375_n	0.7294	1.2927_n	0.00
	18.95	0.546	9.7647	0.9434_n	0.9171	1.2644_n	0.00
	28.93	0.573	9.7893	0.9511_n	1.0390	1.2211_n	0.00
Aug.	7.90	0.601	9.8108	0.9595_n	1.1245	1.1593_n	+0.01
	17.87	0.628	9.8296	0.9677_n	1.1857	1.0723_n	0.01
	27.84	0.655	9.8459	0.9748_n	1.2287	0.9471_n	0.01
Sept.	6.82	0.683	9.8604	0.9800_n	1.2566	0.7507_n	+0.01
	16.79	0.710	9.8736	0.9827_n	1.2711	0.3488_n	0.00
	26.76	0.737	9.8860	0.9827_n	1.2729	0.0967	0.00
Okt.	6.73	0.765	9.8983	0.9797_n	1.2618	0.6734	0.00
	16.71	0.792	9.9110	0.9740_n	1.2371	0.9063	0.00
	26.68	0.819	9.9245	0.9660_n	1.1967	1.0486	0.00
Nov.	5.65	0.846	9.9390	0.9566_n	1.1371	1.1457	0.00
	15.63	0.874	9.9545	0.9467_n	1.0518	1.2142	0.00
	25.60	0.901	9.9710	0.9374_n	0.9277	1.2618	0.00
Dez.	5.57	0.928	9.9879	0.9299_n	0.7317	1.2924	+0.01
	15.54	0.956	0.0050	0.9252_n	0.3306	1.3083	+0.01
	25.52	0.983	0.0217	0.9239_n	0.0729_n	1.3103	0.01
	35.49	1.010	0.0377	0.9261_n	0.6505_n	1.2984	0.01

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Jan. 0	−1.67	0.9316	265° 7′	1.3101	350° 51′	0.1489_n	550
1	1.49	0.9317	265 39	1.3099	349 55	0.1907_n	587
2	1.31	0.9319	266 11	1.3096	348 58	0.2287_n	623
3	1.13	0.9321	266 43	1.3094	348 2	0.2636_n	660
4	0.95	0.9324	267 14	1.3091	347 5	0.2957_n	697
5	−0.77	0.9328	267 45	1.3088	346 8	0.3255_n	733
6	0.59	0.9332	268 17	1.3085	345 12	0.3533_n	770
7	0.42	0.9337	268 48	1.3081	344 15	0.3793_n	806
8	0.24	0.9343	269 19	1.3077	343 18	0.4036_n	843
9	−0.07	0.9349	269 49	1.3074	342 21	0.4265_n	880
10	+0.11	0.9356	270 20	1.3070	341 24	0.4481_n	916
11	0.28	0.9363	270 50	1.3066	340 26	0.4686_n	953
12	0.46	0.9371	271 20	1.3062	339 29	0.4881_n	989
13	0.63	0.9380	271 49	1.3057	338 32	0.5066_n	026
14	0.80	0.9389	272 18	1.3052	337 34	0.5241_n	063
15	+0.97	0.9399	272 47	1.3048	336 36	0.5409_n	099
16	1.14	0.9409	273 16	1.3043	335 39	0.5569_n	136
17	1.31	0.9420	273 44	1.3038	334 41	0.5722_n	172
18	1.47	0.9431	274 12	1.3032	333 43	0.5868_n	209
19	1.64	0.9442	274 39	1.3027	332 45	0.6008_n	246
20	+1.80	0.9454	275 6	1.3022	331 46	0.6143_n	282
21	1.96	0.9466	275 33	1.3016	330 48	0.6272_n	319
22	2.12	0.9479	275 59	1.3010	329 49	0.6396_n	355
23	2.28	0.9492	276 25	1.3004	328 51	0.6515_n	392
24	2.44	0.9505	276 50	1.2998	327 52	0.6630_n	429
25	+2.60	0.9518	277 15	1.2992	326 53	0.6741_n	465
26	2.75	0.9532	277 40	1.2986	325 53	0.6847_n	502
27	2.81	0.9546	278 4	1.2980	324 54	0.6949_n	538
28	3.06	0.9560	278 28	1.2974	323 55	0.7048_n	575
29	3.21	0.9574	278 52	1.2968	322 55	0.7143_n	612
30	+3.36	0.9589	279 15	1.2961	321 55	0.7235_n	648
31	3.51	0.9603	279 38	1.2955	320 55	0.7323_n	685
Febr. 1	3.66	0.9618	280 0	1.2948	319 55	0.7409_n	721
2	3.80	0.9633	280 22	1.2942	318 55	0.7491_n	758
3	3.94	0.9648	280 43	1.2935	317 54	0.7570_n	795
4	+4.09	0.9663	281 4	1.2928	316 54	0.7647_n	831
5	4.23	0.9678	281 25	1.2922	315 53	0.7721_n	868
6	4.37	0.9693	281 46	1.2915	314 52	0.7793_n	904

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
	"		° '		° '		
Febr. 6	+4.37	0.9693	281 46	1.2915	314 52	0.7793_n	904
7	4.50	0.9708	282 6	1.2909	313 51	0.7862_n	941
8	4.64	0.9723	282 26	1.2902	312 50	0.7928_n	978
9	4.78	0.9738	282 45	1.2895	311 48	0.7992_n	014
10	4.91	0.9753	283 4	1.2889	310 47	0.8054_n	051
11	+5.04	0.9768	283 23	1.2882	309 45	0.8113_n	087
12	5.17	0.9783	283 41	1.2876	308 43	0.8171_n	124
13	5.30	0.9797	283 59	1.2869	307 41	0.8226_n	161
14	5.43	0.9812	284 17	1.2863	306 39	0.8279_n	197
15	5.55	0.9826	284 34	1.2857	305 36	0.8331_n	234
16	+5.68	0.9840	284 51	1.2850	304 34	0.8380_n	270
17	5.80	0.9854	285 7	1.2844	303 31	0.8427_n	307
18	5.92	0.9868	285 24	1.2838	302 28	0.8473_n	344
19	6.04	0.9882	285 40	1.2832	301 25	0.8517_n	380
20	6.16	0.9896	285 56	1.2827	300 22	0.8559_n	417
21	+6.28	0.9910	286 12	1.2821	299 19	0.8599_n	453
22	6.40	0.9923	286 28	1.2815	298 15	0.8637_n	490
23	6.52	0.9936	286 43	1.2810	297 12	0.8674_n	527
24	6.63	0.9949	286 58	1.2805	296 8	0.8709_n	563
25	6.75	0.9962	287 13	1.2800	295 4	0.8742_n	600
26	+6.86	0.9975	287 28	1.2795	294 0	0.8774_n	636
27	6.97	0.9987	287 42	1.2790	292 56	0.8805_n	673
28	7.08	0.9999	287 57	1.2785	291 52	0.8834_n	710
März 1	7.19	1.0011	288 11	1.2781	290 48	0.8861_n	746
2	7.30	1.0023	288 25	1.2776	289 44	0.8887_n	783
3	+7.41	1.0034	288 39	1.2772	288 39	0.8911_n	819
4	7.52	1.0045	288 53	1.2768	287 35	0.8934_n	856
5	7.62	1.0056	289 7	1.2765	286 30	0.8955_n	893
6	7.73	1.0067	289 20	1.2761	285 26	0.8975_n	929
7	7.83	1.0077	289 34	1.2758	284 21	0.8993_n	966
8	+7.94	1.0087	289 47	1.2755	283 16	0.9010_n	002
9	8.04	1.0097	290 1	1.2752	282 11	0.9026_n	039
10	8.15	1.0107	290 14	1.2750	281 6	0.9040_n	076
11	8.25	1.0116	290 27	1.2747	280 1	0.9053_n	112
12	8.35	1.0125	290 40	1.2745	278 56	0.9065_n	149
13	+8.45	1.0134	290 53	1.2743	277 51	0.9075_n	186
14	8.55	1.0143	291 6	1.2742	276 46	0.9084_n	222
15	8.66	1.0151	291 20	1.2740	275 41	0.9091_n	259

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
März 15	+ 8.″66	1.0151	291° 20′	1.2740	275° 41′	0.9091_n	259
16	8.76	1.0159	291 33	1.2739	274 36	0.9098_n	295
17	8.86	1.0167	291 46	1.2738	273 31	0.9103_n	332
18	8.96	1.0175	291 59	1.2738	272 26	0.9106_n	369
19	9.06	1.0182	292 12	1.2737	271 22	0.9109_n	405
20	+ 9.16	1.0190	292 25	1.2737	270 17	0.9110_n	442
21	9.26	1.0197	292 38	1.2737	269 12	0.9109_n	478
22	9.36	1.0204	292 51	1.2737	268 7	0.9108_n	515
23	9.46	1.0211	293 5	1.2738	267 2	0.9105_n	552
24	9.56	1.0218	293 18	1.2739	265 57	0.9101_n	588
25	+ 9.66	1.0224	293 32	1.2740	264 52	0.9095_n	625
26	9.76	1.0230	293 46	1.2741	263 48	0.9088_n	661
27	9.86	1.0236	293 59	1.2742	262 43	0.9080_n	698
28	9.96	1.0242	294 13	1.2744	261 39	0.9071_n	735
29	10.06	1.0248	294 26	1.2746	260 35	0.9060_n	771
30	+10.17	1.0254	294 40	1.2748	259 30	0.9048_n	808
31	10.27	1.0259	294 54	1.2751	258 26	0.9035_n	844
April 1	10.38	1.0264	295 9	1.2753	257 22	0.9020_n	881
2	10.48	1.0269	295 23	1.2756	256 18	0.9004_n	918
3	10.58	1.0274	295 37	1.2759	255 14	0.8986_n	954
4	+10.69	1.0279	295 52	1.2762	254 11	0.8968_n	991
5	10.79	1.0284	296 6	1.2766	253 7	0.8948_n	027
6	10.90	1.0289	296 21	1.2770	252 4	0.8926_n	064
7	11.01	1.0294	296 36	1.2774	251 0	0.8903_n	101
8	11.11	1.0299	296 51	1.2778	249 57	0.8879_n	137
9	+11.22	1.0304	297 6	1.2782	248 54	0.8853_n	174
10	11.33	1.0308	297 21	1.2786	247 52	0.8826_n	210
11	11.44	1.0313	297 36	1.2791	246 49	0.8798_n	247
12	11.55	1.0317	297 52	1.2796	245 47	0.8768_n	284
13	11.66	1.0322	298 7	1.2800	244 44	0.8737_n	320
14	+11.78	1.0326	298 23	1.2805	243 42	0.8704_n	357
15	11.89	1.0331	298 39	1.2810	242 40	0.8669_n	393
16	12.01	1.0335	298 55	1.2816	241 38	0.8633_n	430
17	12.12	1.0340	299 12	1.2821	240 37	0.8596_n	467
18	12.24	1.0344	299 28	1.2827	239 35	0.8557_n	503
19	+12.36	1.0349	299 45	1.2832	238 34	0.8516_n	540
20	12.48	1.0354	300 2	1.2838	237 33	0.8474_n	576
21	12.60	1.0359	300 19	1.2844	236 33	0.8430_n	613

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
	"		° '		° '		
April 21	+12.60	1.0359	300 19	1.2844	236 33	0.8430$_n$	613
22	12.72	1.0364	300 36	1.2850	235 32	0.8384$_n$	650
23	12.84	1.0369	300 53	1.2856	234 32	0.8337$_n$	686
24	12.97	1.0374	301 10	1.2862	233 31	0.8288$_n$	723
25	13.09	1.0379	301 28	1.2868	232 31	0.8237$_n$	759
26	+13.22	1.0385	301 45	1.2874	231 32	0.8184$_n$	796
27	13.35	1.0391	302 3	1.2880	230 32	0.8129$_n$	833
28	13.48	1.0397	302 21	1.2887	229 33	0.8073$_n$	869
29	13.61	1.0403	302 39	1.2893	228 33	0.8014$_n$	906
30	13.74	1.0409	302 57	1.2899	227 34	0.7953$_n$	942
Mai 1	+13.87	1.0416	303 15	1.2906	226 36	0.7891$_n$	979
2	14.01	1.0423	303 34	1.2912	225 37	0.7826$_n$	016
3	14.14	1.0430	303 52	1.2918	224 39	0.7759$_n$	052
4	14.28	1.0437	304 11	1.2925	223 41	0.7689$_n$	089
5	14.42	1.0444	304 29	1.2931	222 43	0.7618$_n$	125
6	+14.56	1.0452	304 48	1.2937	221 45	0.7544$_n$	162
7	14.70	1.0460	305 7	1.2943	220 47	0.7467$_n$	199
8	14.84	1.0468	305 26	1.2950	219 50	0.7388$_n$	235
9	14.98	1.0476	305 45	1.2956	218 52	0.7306$_n$	272
10	15.13	1.0485	306 4	1.2962	217 55	0.7221$_n$	308
11	+15.27	1.0493	306 23	1.2968	216 59	0.7133$_n$	345
12	15.42	1.0502	306 42	1.2974	216 2	0.7043$_n$	382
13	15.57	1.0511	307 1	1.2980	215 5	0.6949$_n$	418
14	15.72	1.0521	307 20	1.2986	214 9	0.6852$_n$	455
15	15.87	1.0531	307 39	1.2992	213 13	0.6751$_n$	491
16	+16.02	1.0542	307 58	1.2997	212 17	0.6647$_n$	528
17	16.17	1.0553	308 17	1.3002	211 21	0.6539$_n$	565
18	16.33	1.0564	308 36	1.3008	210 26	0.6427$_n$	601
19	16.48	1.0575	308 55	1.3014	209 30	0.6311$_n$	638
20	16.64	1.0587	309 14	1.3019	208 35	0.6191$_n$	674
21	+16.80	1.0599	309 33	1.3025	207 40	0.6065$_n$	711
22	16.96	1.0611	309 52	1.3030	206 45	0.5935$_n$	748
23	17.12	1.0623	310 11	1.3035	205 50	0.5800$_n$	784
24	17.28	1.0636	310 30	1.3040	204 55	0.5659$_n$	821
25	17.44	1.0649	310 48	1.3045	204 1	0.5513$_n$	857
26	+17.61	1.0662	311 7	1.3049	203 6	0.5359$_n$	894
27	17.77	1.0676	311 25	1.3053	202 12	0.5200$_n$	931
28	17.93	1.0690	311 44	1.3058	201 18	0.5033$_n$	967

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit		f	log. g	G	log. h	H	log. i	☾
Mai	28	+17.93″	1.0690	311° 44′	1.3058	201° 18′	0.5033n	967
	29	18.10	1.0704	312 2	1.3062	200 24	0.4857n	004
	30	18.27	1.0718	312 20	1.3066	199 30	0.4673n	040
	31	18.43	1.0733	312 38	1.3070	198 36	0.4480n	077
Juni	1	18.60	1.0748	312 56	1.3074	197 42	0.4277n	114
	2	+18.77	1.0763	313 14	1.3077	196 49	0.4063n	150
	3	18.94	1.0778	313 32	1.3081	195 55	0.3836n	187
	4	19.11	1.0794	313 49	1.3084	195 2	0.3595n	223
	5	19.29	1.0810	314 7	1.3087	194 9	0.3340n	260
	6	19.46	1.0826	314 24	1.3090	193 15	0.3067n	297
	7	+19.63	1.0843	314 41	1.3093	192 22	0.2774n	333
	8	19.80	1.0860	314 57	1.3095	191 29	0.2459n	370
	9	19.98	1.0878	315 14	1.3097	190 36	0.2118n	406
	10	20.15	1.0895	315 30	1.3100	189 43	0.1747n	443
	11	20.33	1.0913	315 46	1.3102	188 50	0.1340n	480
	12	+20.50	1.0931	316 2	1.3103	187 58	0.0890n	516
	13	20.68	1.0949	316 18	1.3105	187 5	0.0386n	553
	14	20.85	1.0967	316 34	1.3106	186 12	9.9815n	589
	15	21.03	1.0985	316 49	1.3108	185 20	9.9156n	626
	16	21.21	1.1003	317 4	1.3109	184 27	9.8377n	663
	17	+21.38	1.1022	317 18	1.3110	183 34	9.7426n	699
	18	21.56	1.1041	317 33	1.3110	182 42	9.6206n	736
	19	21.74	1.1060	317 47	1.3111	181 49	9.4501n	772
	20	21.92	1.1079	318 1	1.3111	180 57	9.1652n	809
	21	22.09	1.1098	318 15	1.3111	180 4	8.0294n	846
	22	+22.27	1.1117	318 28	1.3111	179 12	9.0969	882
	23	22.45	1.1137	318 42	1.3111	178 19	9.4160	919
	24	22.62	1.1156	318 55	1.3110	177 27	9.5977	955
	25	22.80	1.1176	319 8	1.3110	176 34	9.7254	992
	26	22.97	1.1196	319 20	1.3109	175 42	9.8239	029
	27	+23.15	1.1216	319 33	1.3108	174 49	9.9040	065
	28	23.33	1.1236	319 45	1.3107	173 57	9.9715	102
	29	23.50	1.1256	319 57	1.3105	173 4	0.0298	138
	30	23.68	1.1276	320 8	1.3104	172 11	0.0811	175
Juli	1	23.85	1.1296	320 20	1.3102	171 19	0.1268	212
	2	+24.03	1.1316	320 31	1.3100	170 26	0.1681	248
	3	24.20	1.1336	320 42	1.3098	169 33	0.2057	285
	4	24.38	1.1356	320 53	1.3096	168 40	0.2402	321

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit		f	log. g	G	log. h	H	log. i	☾
Juli	4	+24.38″	1.1356	320° 53′	1.3096	168° 40′	0.2402	321
	5	24.55	1.1376	321 4	1.3093	167 47	0.2720	358
	6	24.72	1.1396	321 14	1.3090	166 54	0.3015	395
	7	24.90	1.1416	321 24	1.3087	166 1	0.3290	431
	8	25.07	1.1436	321 33	1.3084	165 8	0.3548	468
	9	+25.24	1.1456	321 43	1.3081	164 15	0.3791	504
	10	25.41	1.1476	321 52	1.3078	163 22	0.4019	541
	11	25.58	1.1496	322 1	1.3074	162 29	0.4235	578
	12	25.75	1.1516	322 10	1.3070	161 35	0.4440	614
	13	25.91	1.1536	322 18	1.3067	160 42	0.4634	651
	14	+26.08	1.1556	322 27	1.3063	159 48	0.4818	687
	15	26.25	1.1575	322 35	1.3059	158 54	0.4994	724
	16	26.41	1.1595	322 43	1.3055	158 0	0.5162	761
	17	26.57	1.1614	322 51	1.3050	157 6	0.5323	797
	18	26.74	1.1633	322 58	1.3046	156 12	0.5477	834
	19	+26.90	1.1652	323 5	1.3041	155 18	0.5624	870
	20	27.06	1.1671	323 12	1.3036	154 24	0.5765	907
	21	27.22	1.1690	323 19	1.3031	153 29	0.5901	944
	22	27.38	1.1709	323 26	1.3026	152 35	0.6032	980
	23	27.54	1.1728	323 33	1.3021	151 40	0.6157	017
	24	+27.69	1.1747	323 39	1.3016	150 45	0.6278	053
	25	27.85	1.1765	323 45	1.3010	149 50	0.6395	090
	26	28.00	1.1784	323 51	1.3005	148 55	0.6507	127
	27	28.16	1.1802	323 57	1.2999	148 0	0.6615	163
	28	28.31	1.1820	324 3	1.2994	147 4	0.6720	200
	29	+28.46	1.1838	324 8	1.2988	146 8	0.6820	236
	30	28.61	1.1856	324 14	1.2982	145 13	0.6918	273
	31	28.76	1.1874	324 19	1.2976	144 17	0.7012	310
Aug.	1	28.90	1.1892	324 24	1.2970	143 21	0.7103	346
	2	29.05	1.1909	324 29	1.2964	142 24	0.7191	383
	3	+29.19	1.1926	324 34	1.2958	141 28	0.7276	419
	4	29.34	1.1943	324 39	1.2952	140 31	0.7358	456
	5	29.48	1.1960	324 44	1.2946	139 34	0.7437	493
	6	29.62	1.1976	324 48	1.2940	138 37	0.7514	529
	7	29.76	1.1993	324 53	1.2933	137 40	0.7589	566
	8	+29.90	1.2009	324 57	1.2927	136 43	0.7661	602
	9	30.04	1.2025	325 1	1.2921	135 45	0.7730	639
	10	30.17	1.2041	325 6	1.2915	134 48	0.7798	676

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Aug. 10	+30″.17	1.2041	325° 6′	1.2915	134° 48′	0.7798	676
11	30.31	1.2057	325 10	1.2908	133 50	0.7863	712
12	30.44	1.2072	325 14	1.2902	132 52	0.7926	749
13	30.57	1.2088	325 18	1.2896	131 53	0.7987	785
14	30.70	1.2103	325 22	1.2890	130 55	0.8046	822
15	+30.83	1.2118	325 25	1.2883	129 56	0.8103	859
16	30.96	1.2133	325 29	1.2877	128 57	0.8158	895
17	31.09	1.2148	325 32	1.2871	127 58	0.8211	932
18	31.21	1.2162	325 36	1.2865	126 59	0.8262	968
19	31.34	1.2176	325 39	1.2859	126 0	0.8312	005
20	+31.46	1.2190	325 43	1.2853	125 0	0.8359	042
21	31.58	1.2204	325 46	1.2847	124 0	0.8405	078
22	31.70	1.2217	325 50	1.2841	123 0	0.8450	115
23	31.82	1.2230	325 53	1.2836	122 0	0.8493	151
24	31.94	1.2244	325 57	1.2830	121 0	0.8534	188
25	+32.06	1.2257	326 0	1.2825	119 59	0.8573	225
26	32.17	1.2270	326 4	1.2819	118 58	0.8611	261
27	32.29	1.2283	326 7	1.2814	117 57	0.8648	298
28	32.40	1.2295	326 10	1.2809	116 56	0.8683	334
29	32.52	1.2308	326 13	1.2804	115 55	0.8716	371
30	+32.63	1.2320	326 17	1.2799	114 54	0.8748	408
31	32.74	1.2332	326 20	1.2794	113 52	0.8779	444
Sept. 1	32.85	1.2344	326 24	1.2789	112 50	0.8808	481
2	32.96	1.2356	326 27	1.2785	111 48	0.8835	517
3	33.07	1.2367	326 31	1.2781	110 46	0.8861	554
4	+33.18	1.2378	326 34	1.2776	109 44	0.8886	591
5	33.29	1.2389	326 37	1.2772	108 42	0.8910	627
6	33.39	1.2400	326 40	1.2768	107 39	0.8932	664
7	33.50	1.2411	326 44	1.2765	106 37	0.8953	700
8	33.60	1.2422	326 47	1.2762	105 34	0.8972	737
9	+33.71	1.2432	326 51	1.2758	104 31	0.8990	774
10	33.81	1.2442	326 55	1.2755	103 28	0.9007	810
11	33.92	1.2452	326 58	1.2753	102 25	0.9023	847
12	34.02	1.2462	327 2	1.2751	101 22	0.9037	884
13	34.12	1.2472	327 6	1.2748	100 18	0.9050	920
14	+34.22	1.2482	327 10	1.2746	99 15	0.9062	957
15	34.32	1.2492	327 14	1.2744	98 11	0.9072	993
16	34.42	1.2502	327 18	1.2742	97 8	0.9081	030

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Sept. 16	+34.42″	1.2502	327° 18′	1.2742	97° 8′	0.9081	030
17	34.53	1.2511	327 23	1.2741	96 4	0.9089	067
18	34.63	1.2520	327 27	1.2739	95 0	0.9096	103
19	34.73	1.2529	327 31	1.2738	93 56	0.9101	140
20	34.83	1.2538	327 36	1.2738	92 52	0.9105	176
21	+34.93	1.2547	327 40	1.2737	91 48	0.9108	213
22	35.03	1.2556	327 45	1.2737	90 44	0.9109	250
23	35.13	1.2565	327 49	1.2737	89 40	0.9109	286
24	35.23	1.2574	327 54	1.2737	88 36	0.9108	323
25	35.33	1.2582	327 58	1.2738	87 32	0.9106	359
26	+35.43	1.2591	328 3	1.2738	86 28	0.9102	396
27	35.53	1.2599	328 8	1.2739	85 24	0.9098	433
28	35.63	1.2607	328 13	1.2740	84 20	0.9092	469
29	35.73	1.2616	328 18	1.2742	83 16	0.9084	506
30	35.83	1.2624	328 23	1.2743	82 11	0.9075	542
Okt. 1	+35.93	1.2632	328 29	1.2745	81 7	0.9065	579
2	36.03	1.2640	328 34	1.2747	80 3	0.9054	616
3	36.14	1.2648	328 40	1.2749	78 59	0.9041	652
4	36.24	1.2656	328 45	1.2752	77 55	0.9027	689
5	36.34	1.2664	328 51	1.2755	76 51	0.9012	725
6	+36.45	1.2672	328 57	1.2758	75 47	0.8995	762
7	36.55	1.2680	329 3	1.2761	74 43	0.8977	799
8	36.66	1.2688	329 9	1.2764	73 39	0.8958	835
9	36.76	1.2696	329 15	1.2768	72 36	0.8937	872
10	36.87	1.2704	329 21	1.2772	71 32	0.8915	908
11	+36.98	1.2712	329 27	1.2776	70 28	0.8891	945
12	37.09	1.2720	329 33	1.2780	69 25	0.8866	982
13	37.20	1.2728	329 40	1.2784	68 21	0.8839	018
14	37.31	1.2736	329 47	1.2789	67 18	0.8811	055
15	37.42	1.2744	329 53	1.2793	66 15	0.8781	091
16	+37.53	1.2752	330 0	1.2798	65 11	0.8750	128
17	37.65	1.2760	330 7	1.2803	64 8	0.8718	165
18	37.76	1.2769	330 14	1.2808	63 5	0.8683	201
19	37.88	1.2777	330 21	1.2814	62 3	0.8647	238
20	38.00	1.2785	330 28	1.2819	61 0	0.8610	274
21	+38.12	1.2793	330 35	1.2825	59 57	0.8571	311
22	38.23	1.2801	330 43	1.2831	58 55	0.8530	348
23	38.35	1.2810	330 50	1.2836	57 53	0.8487	384

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	*f*	log. *g*	*G*	log. *h*	*H*	log. *i*	☾
Okt. 23	+38.35″	1.2810	330° 50′	1.2836	57° 53′	0.8487	384
24	38.47	1.2818	330 58	1.2842	56 50	0.8443	421
25	38.59	1.2827	331 5	1.2848	55 48	0.8397	457
26	38.72	1.2836	331 13	1.2854	54 46	0.8349	494
27	38.84	1.2844	331 21	1.2860	53 45	0.8299	531
28	+38.97	1.2853	331 29	1.2867	52 43	0.8247	567
29	39.10	1.2862	331 36	1.2873	51 42	0.8193	604
30	39.23	1.2871	331 44	1.2880	50 40	0.8137	640
31	39.36	1.2880	331 52	1.2886	49 39	0.8079	677
Nov. 1	39.49	1.2889	332 0	1.2892	48 38	0.8019	714
2	+39.62	1.2899	332 8	1.2899	47 37	0.7956	750
3	39.76	1.2908	332 16	1.2905	46 36	0.7891	787
4	39.89	1.2918	332 24	1.2912	45 36	0.7824	823
5	40.03	1.2928	332 32	1.2919	44 35	0.7755	860
6	40.17	1.2937	332 40	1.2925	43 35	0.7683	897
7	+40.31	1.2947	332 48	1.2932	42 35	0.7608	933
8	40.45	1.2957	332 56	1.2938	41 35	0.7531	970
9	40.60	1.2968	333 4	1.2945	40 35	0.7450	006
10	40.74	1.2978	333 12	1.2951	39 35	0.7367	043
11	40.89	1.2988	333 20	1.2958	38 36	0.7281	080
12	+41.04	1.2999	333 28	1.2964	37 36	0.7192	116
13	41.19	1.3009	333 37	1.2970	36 37	0.7099	153
14	41.34	1.3020	333 45	1.2977	35 38	0.7003	189
15	41.49	1.3031	333 53	1.2983	34 39	0.6904	226
16	41.65	1.3042	334 1	1.2989	33 40	0.6800	263
17	+41.80	1.3053	334 9	1.2995	32 42	0.6693	299
18	41.96	1.3065	334 17	1.3001	31 43	0.6582	336
19	42.12	1.3076	334 25	1.3007	30 45	0.6466	372
20	42.28	1.3088	334 33	1.3013	29 47	0.6345	409
21	42.44	1.3100	334 41	1.3018	28 48	0.6220	446
22	+42.60	1.3112	334 49	1.3024	27 50	0.6090	482
23	42.76	1.3124	334 56	1.3029	26 53	0.5954	519
24	42.93	1.3136	335 4	1.3035	25 55	0.5812	555
25	43.09	1.3148	335 12	1.3040	24 57	0.5664	592
26	43.26	1.3161	335 20	1.3045	24 0	0.5509	629
27	+43.43	1.3173	335 27	1.3049	23 2	0.5347	665
28	43.60	1.3186	335 35	1.3054	22 5	0.5178	702
29	43.77	1.3198	335 42	1.3059	21 8	0.5000	738

Konstanten für die mittleren Tage 1913,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit	*f*	log. *g*	*G*	log. *h*	*H*	log. *i*	☾
	″		° ′		° ′		
Nov. 29	+43.77	1.3198	335 42	1.3059	21 8	0.5000	738
30	43.94	1.3211	335 50	1.3063	20 11	0.4813	775
Dez. 1	44.12	1.3224	335 57	1.3067	19 14	0.4616	812
2	44.29	1.3237	336 4	1.3071	18 17	0.4408	848
3	44.47	1.3250	336 11	1.3075	17 20	0.4189	885
4	+44.64	1.3263	336 18	1.3079	16 23	0.3956	921
5	44.82	1.3276	336 24	1.3082	15 26	0.3708	958
6	44.99	1.3290	336 31	1.3086	14 30	0.3444	995
7	45.17	1.3303	336 38	1.3089	13 33	0.3161	031
8	45.35	1.3317	336 44	1.3092	12 37	0.2857	068
9	+45.53	1.3331	336 51	1.3095	11 40	0.2528	104
10	45.71	1.3345	336 57	1.3097	10 44	0.2171	141
11	45.89	1.3359	337 3	1.3099	9 48	0.1780	178
12	46.07	1.3373	337 9	1.3101	8 52	0.1349	214
13	46.25	1.3387	337 15	1.3103	7 55	0.0870	251
14	+46.44	1.3401	337 21	1.3105	6 59	0.0328	287
15	46.62	1.3415	337 27	1.3107	6 3	9.9708	324
16	46.80	1.3429	337 32	1.3108	5 7	9.8982	361
17	46.99	1.3443	337 38	1.3109	4 11	9.8108	397
18	47.17	1.3457	337 43	1.3110	3 15	9.7011	434
19	+47.35	1.3471	337 48	1.3111	2 19	9.5536	470
20	47.53	1.3485	337 53	1.3111	1 23	9.3288	507
21	47.72	1.3499	337 58	1.3111	0 27	8.8351	544
22	47.90	1.3514	338 3	1.3111	359 30	8.8837_n	580
23	48.09	1.3528	338 8	1.3111	358 34	9.3450_n	617
24	+48.27	1.3542	338 12	1.3111	357 38	9.5636_n	653
25	48.46	1.3557	338 17	1.3110	356 42	9.7083_n	690
26	48.64	1.3571	338 21	1.3109	355 46	9.8164_n	727
27	48.83	1.3585	338 25	1.3108	354 50	9.9029_n	763
28	49.01	1.3600	338 29	1.3107	353 54	9.9748_n	800
29	+49.19	1.3614	338 33	1.3105	352 57	0.0365_n	836
30	49.37	1.3628	338 37	1.3103	352 1	0.0903_n	873
31	49.55	1.3642	338 41	1.3101	351 5	0.1380_n	910
32	49.74	1.3656	338 44	1.3099	350 8	0.1809_n	946
33	49.92	1.3670	338 48	1.3097	349 12	0.2198_n	983
34	+50.10	1.3684	338 51	1.3094	348 15	0.2554_n	019
35	50.28	1.3698	338 54	1.3092	347 19	0.2881_n	056
36	50.45	1.3712	338 57	1.3089	346 22	0.3185_n	093

Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1913.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
000	6.577_n	8.946_n	−0.02"	8.948	265.1°	350	7.481	8.436	+0.14"	8.823	24.2°
010	6.984_n	8.943_n	−0.04	8.953	257.6	360	7.508	8.219	+0.15	8.824	14.4
020	7.188_n	8.933_n	−0.07	8.959	250.2	370	7.526	7.744	+0.16	8.829	4.7
030	7.323_n	8.915_n	−0.10	8.965	242.9	380	7.535	7.744_n	+0.16	8.839	355.4
040	7.421_n	8.889_n	−0.12	8.972	235.7	390	7.537	8.219_n	+0.16	8.851	346.5
050	7.496_n	8.854_n	−0.15	8.979	228.7	400	7.531	8.436_n	+0.16	8.865	338.1
060	7.556_n	8.809_n	−0.17	8.985	221.8	410	7.517	8.576_n	+0.15	8.880	330.3
070	7.603_n	8.751_n	−0.19	8.992	215.0	420	7.495	8.675_n	+0.14	8.895	322.9
080	7.640_n	8.675_n	−0.20	8.998	208.4	430	7.464	8.751_n	+0.13	8.909	316.0
090	7.669_n	8.576_n	−0.22	9.004	201.9	440	7.423	8.809_n	+0.12	8.922	309.4
100	7.691_n	8.436_n	−0.23	9.009	195.5	450	7.369	8.854_n	+0.11	8.932	303.2
110	7.706_n	8.219_n	−0.23	9.014	189.2	460	7.300	8.889_n	+0.09	8.940	297.3
120	7.716_n	7.744_n	−0.24	9.018	183.0	470	7.209	8.915_n	+0.08	8.946	291.5
130	7.719_n	7.744	−0.24	9.021	177.0	480	7.086	8.933_n	+0.06	8.950	285.9
140	7.717_n	8.219	−0.24	9.024	171.0	490	6.905	8.943_n	+0.04	8.950	280.4
150	7.709_n	8.436	−0.24	9.026	165.1	500	6.577	8.946_n	+0.02	8.948	274.9
160	7.695_n	8.576	−0.23	9.026	159.2	510	5.695_n	8.943_n	0.00	8.943	269.3
170	7.675_n	8.675	−0.22	9.025	153.4	520	6.672_n	8.933_n	−0.02	8.935	263.7
180	7.648_n	8.751	−0.21	9.023	147.7	530	6.943_n	8.915_n	−0.04	8.925	257.9
190	7.614_n	8.809	−0.19	9.019	141.9	540	7.101_n	8.889_n	−0.06	8.911	251.9
200	7.571_n	8.854	−0.17	9.014	136.2	550	7.210_n	8.854_n	−0.08	8.895	245.6
210	7.517_n	8.889	−0.15	9.008	130.4	560	7.289_n	8.809_n	−0.09	8.877	238.8
220	7.451_n	8.915	−0.13	8.999	124.6	570	7.348_n	8.751_n	−0.10	8.857	231.6
230	7.368_n	8.933	−0.11	8.989	118.6	580	7.392_n	8.675_n	−0.11	8.835	223.8
240	7.259_n	8.943	−0.08	8.978	112.5	590	7.424_n	8.576_n	−0.12	8.814	215.3
250	7.110_n	8.946	−0.06	8.964	106.3	600	7.445_n	8.436_n	−0.13	8.793	206.1
260	6.878_n	8.943	−0.04	8.949	99.8	610	7.457_n	8.219_n	−0.13	8.776	196.1
270	6.351_n	8.933	−0.01	8.933	93.0	620	7.460_n	7.744_n	−0.13	8.763	185.5
280	6.470	8.915	+0.01	8.916	85.9	630	7.453_n	7.744	−0.13	8.757	174.4
290	6.901	8.889	+0.04	8.898	78.4	640	7.438_n	8.219	−0.13	8.759	163.2
300	7.104	8.854	+0.06	8.880	70.4	650	7.412_n	8.436	−0.12	8.768	152.2
310	7.233	8.809	+0.08	8.863	62.0	660	7.375_n	8.576	−0.11	8.783	141.6
320	7.325	8.751	+0.10	8.848	53.1	670	7.323_n	8.675	−0.10	8.802	131.7
330	7.392	8.675	+0.11	8.836	43.8	680	7.253_n	8.751	−0.08	8.825	122.5
340	7.442	8.576	+0.13	8.827	34.1	690	7.156_n	8.809	−0.07	8.849	114.0
350	7.481	8.436	+0.14	8.823	24.2	700	7.016_n	8.854	−0.05	8.872	106.2

Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1913.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
700	7.016_n	8.854	−0.05″	8.872	106.2°	850	7.669	8.436	+0.22″	8.989	16.3°
710	6.784_n	8.889	−0.03	8.894	98.9	860	7.674	8.219	+0.22	8.983	9.9
720	6.186_n	8.915	−0.01	8.915	92.1	870	7.674	7.744	+0.22	8.977	3.4
730	6.504	8.933	+0.02	8.934	85.7	880	7.667	7.744_n	+0.21	8.970	356.6
740	6.904	8.943	+0.04	8.950	79.6	890	7.654	8.219_n	+0.21	8.963	349.6
750	7.110	8.946	+0.06	8.964	73.7	900	7.634	8.436_n	+0.20	8.956	342.4
760	7.248	8.943	+0.08	8.976	68.0	910	7.606	8.576_n	+0.19	8.950	335.0
770	7.350	8.933	+0.10	8.985	62.4	920	7.569	8.675_n	+0.17	8.945	327.5
780	7.429	8.915	+0.12	8.992	56.8	930	7.522	8.751_n	+0.15	8.941	319.8
790	7.492	8.889	+0.14	8.997	51.3	940	7.461	8.809_n	+0.13	8.938	312.0
800	7.542	8.854	+0.16	9.000	45.7	950	7.383	8.854_n	+0.11	8.936	304.1
810	7.583	8.809	+0.18	9.001	40.0	960	7.280	8.889_n	+0.09	8.936	296.2
820	7.615	8.751	+0.19	9.000	34.3	970	7.133	8.915_n	+0.06	8.938	288.3
830	7.640	8.675	+0.20	8.998	28.4	980	6.899	8.933_n	+0.04	8.940	280.5
840	7.658	8.576	+0.21	8.994	22.4	990	6.325	8.943_n	+0.01	8.944	272.8
850	7.669	8.436	+0.22	8.989	16.3	000	6.577_n	8.946_n	−0.02	8.948	265.1

Korrektion der Schiefe der Ekliptik für die Glieder von kurzer Periode.

Argument ☾		$\Delta\varepsilon$	Argument ☾		$\Delta\varepsilon$	Argument ☾		$\Delta\varepsilon$
000	500	+0.09″	200	700	−0.07″	400	900	+0.03″
020	520	+0.09	220	720	−0.08	420	920	+0.05
040	540	+0.08	240	740	−0.09	440	940	+0.07
060	560	+0.07	260	760	−0.09	460	960	+0.08
080	580	+0.05	280	780	−0.08	480	980	+0.09
100	600	+0.03	300	800	−0.07	500	000	+0.09
120	620	+0.01	320	820	−0.06			
140	640	−0.02	340	840	−0.04			
160	660	−0.04	360	860	−0.02			
180	680	−0.06	380	880	+0.01			
200	700	−0.07	400	900	+0.03			

Konstanten für die Sterntage 1913,

gültig für die Sternzeitepochen $6^h\ 38^m.9$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Jan. 0.499	0.0000	8.5744$_n$	0.9337$_n$	0.5115$_n$	1.3045	—3.247
1.497	0.0027	8.5400$_n$	0.9326$_n$	0.5532$_n$	1.3031	3.575
2.494	0.0055	8.4932$_n$	0.9310$_n$	0.5912$_n$	1.3015	3.901
3.491	0.0082	8.4286$_n$	0.9295$_n$	0.6260$_n$	1.2998	4.227
4.488	0.0109	8.3399$_n$	0.9284$_n$	0.6581$_n$	1.2980	4.551
5.486	0.0136	8.2164$_n$	0.9281$_n$	0.6878$_n$	1.2960	—4.873
6.483	0.0164	8.0390$_n$	0.9286$_n$	0.7155$_n$	1.2938	5.194
7.480	0.0191	7.7566$_n$	0.9302$_n$	0.7414$_n$	1.2915	5.513
8.477	0.0218	7.0170$_n$	0.9325$_n$	0.7657$_n$	1.2891	5.831
9.475	0.0246	7.4472	0.9351$_n$	0.7886$_n$	1.2865	6.147
10.472	0.0273	7.7619	0.9356$_n$	0.8103$_n$	1.2838	—6.461
11.469	0.0300	7.9042	0.9363$_n$	0.8307$_n$	1.2809	
12.466	0.0328	7.9903	0.9370$_n$	0.8501$_n$	1.2778	
13.464	0.0355	8.0577	0.9378$_n$	0.8686$_n$	1.2746	
14.461	0.0382	8.1248	0.9386$_n$	0.8861$_n$	1.2712	
15.458	0.0410	8.2006	0.9393$_n$	0.9029$_n$	1.2677	
16.456	0.0437	8.2840	0.9402$_n$	0.9189$_n$	1.2640	
17.453	0.0464	8.3705	0.9410$_n$	0.9342$_n$	1.2601	
18.450	0.0491	8.4542	0.9419$_n$	0.9488$_n$	1.2561	
19.447	0.0519	8.5301	0.9427$_n$	0.9628$_n$	1.2518	
20.445	0.0546	8.5959	0.9436$_n$	0.9763$_n$	1.2474	
21.442	0.0573	8.6504	0.9445$_n$	0.9892$_n$	1.2428	
22.439	0.0601	8.6934	0.9454$_n$	1.0016$_n$	1.2381	
23.436	0.0628	8.7258	0.9464$_n$	1.0135$_n$	1.2331	
24.434	0.0655	8.7494	0.9473$_n$	1.0250$_n$	1.2280	
25.431	0.0683	8.7668	0.9482$_n$	1.0360$_n$	1.2226	
26.428	0.0710	8.7805	0.9492$_n$	1.0467$_n$	1.2171	
27.426	0.0737	8.7928	0.9502$_n$	1.0569$_n$	1.2113	
28.423	0.0764	8.8070	0.9511$_n$	1.0668$_n$	1.2053	
29.420	0.0792	8.8243	0.9521$_n$	1.0763$_n$	1.1991	
30.417	0.0819	8.8455	0.9531$_n$	1.0855$_n$	1.1927	
31.415	0.0846	8.8699	0.9541$_n$	1.0943$_n$	1.1861	
Febr. 1.412	0.0874	8.8960	0.9550$_n$	1.1029$_n$	1.1792	
2.409	0.0901	8.9218	0.9560$_n$	1.1111$_n$	1.1721	
3.406	0.0928	8.9455	0.9570$_n$	1.1190$_n$	1.1647	
4.404	0.0956	8.9656	0.9580$_n$	1.1267$_n$	1.1570	
5.401	0.0983	8.9815	0.9590$_n$	1.1341$_n$	1.1491	
6.398	0.1010	8.9928	0.9599$_n$	1.1413$_n$	1.1409	

$E = 0''.00$

Konstanten für die Sterntage 1913,

gültig für die Sternzeitepochen $6^h\ 38^m.9$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Febr. 6.398	0.1010	8.9928	0.9599_n	1.1413_n	1.1409	
7.395	0.1038	9.0003	0.9639_n	1.1482_n	1.1324	
8.393	0.1065	9.0050	0.9658_n	1.1548_n	1.1236	
9.390	0.1092	9.0085	0.9670_n	1.1612_n	1.1144	
10.387	0.1120	9.0125	0.9672_n	1.1674_n	1.1050	
11.385	0.1147	9.0184	0.9668_n	1.1734_n	1.0952	
12.382	0.1174	9.0275	0.9659_n	1.1791_n	1.0850	
13.379	0.1201	9.0397	0.9649_n	1.1847_n	1.0745	
14.376	0.1229	9.0547	0.9643_n	1.1900_n	1.0635	
15.374	0.1256	9.0715	0.9643_n	1.1951_n	1.0522	
16.371	0.1283	9.0885	0.9651_n	1.2001_n	1.0404	
17.368	0.1311	9.1044	0.9667_n	1.2048_n	1.0282	
18.365	0.1338	9.1180	0.9690_n	1.2094_n	1.0154	
19.363	0.1365	9.1289	0.9717_n	1.2138_n	1.0022	
20.360	0.1393	9.1368	0.9743_n	1.2180_n	0.9884	
21.357	0.1420	9.1422	0.9765_n	1.2220_n	0.9740	
22.355	0.1447	9.1458	0.9780_n	1.2259_n	0.9590	
23.352	0.1474	9.1486	0.9787_n	1.2296_n	0.9433	
24.349	0.1502	9.1519	0.9785_n	1.2331_n	0.9269	
25.346	0.1529	9.1567	0.9777_n	1.2365_n	0.9098	
26.344	0.1556	9.1635	0.9765_n	1.2397_n	0.8918	
27.341	0.1584	9.1724	0.9754_n	1.2427_n	0.8729	
28.338	0.1611	9.1829	0.9747_n	1.2456_n	0.8530	
März 1.335	0.1638	9.1942	0.9747_n	1.2483_n	0.8320	
2.333	0.1666	9.2052	0.9755_n	1.2509_n	0.8098	+6.454
3.330	0.1693	9.2150	0.9770_n	1.2534_n	0.7864	+6.114
4.327	0.1720	9.2230	0.9791_n	1.2557_n	0.7614	5.773
5.325	0.1747	9.2286	0.9814_n	1.2578_n	0.7348	5.430
6.322	0.1775	9.2320	0.9836_n	1.2598_n	0.7063	5.085
7.319	0.1802	9.2336	0.9852_n	1.2617_n	0.6757	4.739
8.316	0.1829	9.2341	0.9861_n	1.2634_n	0.6427	+4.392
9.314	0.1857	9.2346	0.9862_n	1.2650_n	0.6068	4.044
10.311	0.1884	9.2360	0.9855_n	1.2665_n	0.5675	3.694
11.308	0.1911	9.2391	0.9842_n	1.2678_n	0.5242	3.343
12.305	0.1939	9.2443	0.9827_n	1.2690_n	0.4760	2.992
13.303	0.1966	9.2516	0.9813_n	1.2700_n	0.4218	+2.641
14.300	0.1993	9.2605	0.9804_n	1.2709_n	0.3595	2.288
15.297	0.2021	9.2702	0.9802_n	1.2717_n	0.2868	1.935

$E = 0^{s}.00$

Konstanten für die Sterntage 1913,

gültig für die Sternzeitepochen $6^h\ 38^m.9$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
März 15.297	0.2021	9.2702	0.9802_n	1.2717_n	0.2868	+1.935
16.294	0.2048	9.2798	0.9809_n	1.2724_n	0.1992	1.582
17.292	0.2075	9.2883	0.9822_n	1.2729_n	0.0893	1.228
18.289	0.2102	9.2954	0.9840_n	1.2733_n	9.9418	0.875
19.286	0.2130	9.3006	0.9859_n	1.2735_n	9.7166	0.521
20.284	0.2157	9.3040	0.9875_n	1.2737_n	9.2225	+0.167
21.281	0.2184	9.3061	0.9886_n	1.2737_n	9.2713_n	−0.187
22.278	0.2212	9.3074	0.9888_n	1.2735_n	9.7325_n	0.540
23.275	0.2239	9.3088	0.9882_n	1.2733_n	9.9510_n	0.893
24.273	0.2266	9.3111	0.9869_n	1.2729_n	0.0955_n	1.246
25.270	0.2294	9.3146	0.9851_n	1.2724_n	0.2035_n	−1.598
26.267	0.2321	9.3198	0.9832_n	1.2717_n	0.2898_n	1.949
27.264	0.2348	9.3264	0.9815_n	1.2709_n	0.3617_n	2.300
28.262	0.2375	9.3339	0.9804_n	1.2700_n	0.4231_n	2.649
29.259	0.2403	9.3418	0.9801_n	1.2690_n	0.4768_n	2.998
30.256	0.2430	9.3491	0.9805_n	1.2678_n	0.5245_n	−3.346
31.254	0.2457	9.3553	0.9816_n	1.2665_n	0.5673_n	3.692
April 1.251	0.2485	9.3600	0.9831_n	1.2651_n	0.6061_n	4.037
2.248	0.2512	9.3630	0.9845_n	1.2635_n	0.6416_n	4.381
3.245	0.2539	9.3646	0.9856_n	1.2618_n	0.6742_n	4.723
4.243	0.2567	9.3652	0.9861_n	1.2600_n	0.7045_n	−5.064
5.240	0.2594	9.3655	0.9857_n	1.2580_n	0.7326_n	5.403
6.237	0.2621	9.3663	0.9845_n	1.2559_n	0.7589_n	5.740
7.234	0.2649	9.3681	0.9826_n	1.2537_n	0.7836_n	6.075
8.232	0.2676	9.3715	0.9804_n	1.2513_n	0.8068_n	6.409
9.229	0.2703	9.3766	0.9781_n	1.2488_n	0.8286_n	
10.226	0.2730	9.3830	0.9762_n	1.2461_n	0.8494_n	
11.223	0.2758	9.3904	0.9749_n	1.2433_n	0.8690_n	
12.221	0.2785	9.3981	0.9744_n	1.2404_n	0.8876_n	
13.218	0.2812	9.4054	0.9748_n	1.2373_n	0.9054_n	
14.215	0.2840	9.4116	0.9757_n	1.2340_n	0.9223_n	
15.213	0.2867	9.4166	0.9769_n	1.2306_n	0.9385_n	
16.210	0.2894	9.4203	0.9780_n	1.2271_n	0.9539_n	
17.207	0.2922	9.4227	0.9786_n	1.2234_n	0.9687_n	
18.204	0.2949	9.4245	0.9785_n	1.2196_n	0.9829_n	
19.202	0.2976	9.4261	0.9776_n	1.2156_n	0.9965_n	
20.199	0.3003	9.4282	0.9758_n	1.2114_n	1.0096_n	
21.196	0.3031	9.4312	0.9735_n	1.2071_n	1.0221_n	

$E = 0.''00$

Konstanten für die Sterntage 1913,

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
April 21.196	0.3031	9.4312	0.9735_n	1.2071_n	1.0221_n
22.193	0.3058	9.4354	0.9709_n	1.2026_n	1.0341_n
23.191	0.3085	9.4408	0.9684_n	1.1979_n	1.0458_n
24.188	0.3113	9.4471	0.9664_n	1.1930_n	1.0569_n
25.185	0.3140	9.4539	0.9651_n	1.1880_n	1.0677_n
26.183	0.3167	9.4606	0.9646_n	1.1828_n	1.0781_n
27.180	0.3195	9.4665	0.9650_n	1.1774_n	1.0881_n
28.177	0.3222	9.4715	0.9659_n	1.1718_n	1.0978_n
29.174	0.3249	9.4751	0.9669_n	1.1661_n	1.1071_n
30.172	0.3277	9.4776	0.9677_n	1.1601_n	1.1161_n
Mai 1.169	0.3304	9.4792	0.9680_n	1.1539_n	1.1248_n
2.166	0.3331	9.4803	0.9675_n	1.1475_n	1.1332_n
3.163	0.3358	9.4816	0.9662_n	1.1409_n	1.1413_n
4.161	0.3386	9.4836	0.9640_n	1.1340_n	1.1492_n
5.158	0.3413	9.4866	0.9614_n	1.1270_n	1.1567_n
6.155	0.3440	9.4909	0.9586_n	1.1196_n	1.1641_n
7.152	0.3468	9.4964	0.9561_n	1.1121_n	1.1711_n
8.150	0.3495	9.5027	0.9542_n	1.1043_n	1.1780_n
9.147	0.3522	9.5096	0.9530_n	1.0962_n	1.1846_n
10.144	0.3550	9.5162	0.9528_n	1.0878_n	1.1910_n
11.142	0.3577	9.5223	0.9533_n	1.0792_n	1.1972_n
12.139	0.3604	9.5275	0.9543_n	1.0703_n	1.2031_n
13.136	0.3631	9.5316	0.9554_n	1.0610_n	1.2089_n
14.133	0.3659	9.5348	0.9561_n	1.0515_n	1.2144_n
15.131	0.3686	9.5373	0.9562_n	1.0416_n	1.2198_n
16.128	0.3713	9.5394	0.9555_n	1.0313_n	1.2250_n
17.125	0.3741	9.5418	0.9539_n	1.0207_n	1.2299_n
18.122	0.3768	9.5447	0.9516_n	1.0097_n	1.2348_n
19.120	0.3795	9.5485	0.9488_n	0.9983_n	1.2394_n
20.117	0.3823	9.5532	0.9461_n	0.9864_n	1.2439_n
21.114	0.3850	9.5587	0.9438_n	0.9741_n	1.2482_n
22.112	0.3877	9.5647	0.9421_n	0.9613_n	1.2523_n
23.109	0.3904	9.5708	0.9414_n	0.9481_n	1.2563_n
24.106	0.3932	9.5766	0.9416_n	0.9343_n	1.2601_n
25.103	0.3959	9.5816	0.9425_n	0.9199_n	1.2637_n
26.101	0.3986	9.5856	0.9437_n	0.9048_n	1.2672_n
27.098	0.4014	9.5887	0.9449_n	0.8892_n	1.2706_n
28.095	0.4041	9.5910	0.9457_n	0.8728_n	1.2738_n

$$E = 0''.00$$

Konstanten für die Sterntage 1913,

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Mai 28.095	0.4041	9.5910	0.9457_n	0.8728_n	1.2738_n	−7.461
29.092	0.4068	9.5927	0.9458_n	0.8556_n	1.2769_n	7.172
30.090	0.4096	9.5943	0.9450_n	0.8377_n	1.2798_n	6.881
31.087	0.4123	9.5964	0.9433_n	0.8188_n	1.2826_n	6.589
Juni 1.084	0.4150	9.5991	0.9411_n	0.7990_n	1.2852_n	6.295
2.081	0.4178	9.6027	0.9385_n	0.7781_n	1.2877_n	−5.999
3.079	0.4205	9.6072	0.9360_n	0.7560_n	1.2901_n	5.702
4.076	0.4232	9.6126	0.9341_n	0.7326_n	1.2924_n	5.403
5.073	0.4259	9.6184	0.9330_n	0.7078_n	1.2945_n	5.102
6.071	0.4287	9.6243	0.9329_n	0.6813_n	1.2964_n	4.801
7.068	0.4314	9.6298	0.9336_n	0.6530_n	1.2983_n	−4.498
8.065	0.4341	9.6347	0.9350_n	0.6226_n	1.3000_n	4.194
9.062	0.4369	9.6388	0.9366_n	0.5898_n	1.3016_n	3.888
10.060	0.4396	9.6421	0.9381_n	0.5542_n	1.3031_n	3.582
11.057	0.4423	9.6447	0.9390_n	0.5152_n	1.3044_n	3.275
12.054	0.4451	9.6470	0.9392_n	0.4723_n	1.3056_n	−2.967
13.051	0.4478	9.6492	0.9384_n	0.4246_n	1.3067_n	2.659
14.049	0.4505	9.6517	0.9369_n	0.3709_n	1.3077_n	2.349
15.046	0.4532	9.6549	0.9348_n	0.3094_n	1.3085_n	2.039
16.043	0.4560	9.6587	0.9326_n	0.2377_n	1.3093_n	1.729
17.041	0.4587	9.6632	0.9306_n	0.1516_n	1.3099_n	−1.418
18.038	0.4614	9.6682	0.9293_n	0.0439_n	1.3104_n	1.107
19.035	0.4642	9.6734	0.9289_n	9.9003_n	1.3107_n	0.795
20.032	0.4669	9.6784	0.9294_n	9.6841_n	1.3110_n	0.483
21.030	0.4696	9.6829	0.9308_n	9.2339_n	1.3111_n	−0.171
22.027	0.4724	9.6867	0.9327_n	9.1477	1.3111_n	+0.140
23.024	0.4751	9.6897	0.9347_n	9.6553	1.3110_n	0.452
24.021	0.4778	9.6919	0.9365_n	9.8830	1.3108_n	0.764
25.019	0.4806	9.6936	0.9376_n	0.0314	1.3104_n	1.075
26.016	0.4833	9.6951	0.9379_n	0.1418	1.3099_n	1.386
27.013	0.4860	9.6967	0.9373_n	0.2296	1.3093_n	+1.697
28.011	0.4887	9.6988	0.9360_n	0.3025	1.3086_n	2.007
29.008	0.4915	9.7014	0.9343_n	0.3648	1.3078_n	2.316
30.005	0.4942	9.7049	0.9325_n	0.4192	1.3068_n	2.625
Juli 1.002	0.4969	9.7090	0.9311_n	0.4674	1.3058_n	2.934
2.000	0.4997	9.7136	0.9304_n	0.5107	1.3046_n	+3.241
2.997	0.5024	9.7183	0.9307_n	0.5499	1.3032_n	3.547
3.994	0.5051	9.7229	0.9319_n	0.5858	1.3018_n	3.853

$E = 0''.00$

Konstanten für die Sterntage 1913,

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Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D	C
Juli	3.994	0.5051	9.7229	0.9319_n	0.5858	1.3018_n	+3.853
	4.991	0.5079	9.7271	0.9338_n	0.6188	1.3002_n	4.157
	5.989	0.5106	9.7307	0.9362_n	0.6494	1.2985_n	4.461
	6.986	0.5133	9.7335	0.9386_n	0.6778	1.2967_n	4.763
	7.983	0.5160	9.7358	0.9406_n	0.7044	1.2947_n	5.063
	8.980	0.5188	9.7377	0.9418_n	0.7294	1.2927_n	+5.363
	9.978	0.5215	9.7393	0.9422_n	0.7529	1.2904_n	5.661
	10.975	0.5242	9.7412	0.9418_n	0.7750	1.2881_n	5.957
	11.972	0.5270	9.7434	0.9407_n	0.7960	1.2856_n	6.252
	12.970	0.5297	9.7461	0.9393_n	0.8159	1.2830_n	6.545
	13.967	0.5324	9.7495	0.9379_n	0.8348	1.2803_n	
	14.964	0.5352	9.7533	0.9371_n	0.8528	1.2774_n	
	15.961	0.5379	9.7573	0.9371_n	0.8700	1.2743_n	
	16.959	0.5406	9.7613	0.9379_n	0.8864	1.2712_n	
	17.956	0.5433	9.7650	0.9397_n	0.9021	1.2678_n	
	18.953	0.5461	9.7682	0.9421_n	0.9171	1.2644_n	
	19.950	0.5488	9.7707	0.9448_n	0.9316	1.2608_n	
	20.948	0.5515	9.7725	0.9473_n	0.9454	1.2570_n	
	21.945	0.5543	9.7738	0.9494_n	0.9587	1.2531_n	
	22.942	0.5570	9.7748	0.9507_n	0.9715	1.2490_n	
	23.940	0.5597	9.7757	0.9511_n	0.9838	1.2448_n	
	24.937	0.5625	9.7769	0.9506_n	0.9957	1.2404_n	
	25.934	0.5652	9.7786	0.9497_n	1.0071	1.2358_n	
	26.931	0.5679	9.7809	0.9485_n	1.0181	1.2311_n	
	27.929	0.5707	9.7838	0.9475_n	1.0288	1.2262_n	
	28.926	0.5734	9.7871	0.9471_n	1.0390	1.2211_n	
	29.923	0.5761	9.7907	0.9476_n	1.0489	1.2158_n	
	30.920	0.5789	9.7943	0.9489_n	1.0585	1.2104_n	
	31.918	0.5816	9.7976	0.9510_n	1.0678	1.2047_n	
Aug.	1.915	0.5843	9.8004	0.9537_n	1.0767	1.1989_n	
	2.912	0.5870	9.8027	0.9564_n	1.0854	1.1928_n	
	3.909	0.5898	9.8044	0.9590_n	1.0937	1.1865_n	
	4.907	0.5925	9.8057	0.9609_n	1.1018	1.1801_n	
	5.904	0.5952	9.8067	0.9620_n	1.1096	1.1734_n	
	6.901	0.5980	9.8078	0.9622_n	1.1172	1.1664_n	
	7.899	0.6007	9.8091	0.9617_n	1.1245	1.1593_n	
	8.896	0.6034	9.8108	0.9607_n	1.1316	1.1518_n	
	9.893	0.6062	9.8131	0.9597_n	1.1385	1.1442_n	

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Aug. 9.893	0.6062	9.8131	0.9597_n	1.1385	1.1442_n	
10.890	0.6089	9.8157	0.9589_n	1.1451	1.1362_n	
11.888	0.6116	9.8187	0.9588_n	1.1515	1.1280_n	
12.885	0.6143	9.8218	0.9595_n	1.1577	1.1194_n	
13.882	0.6171	9.8247	0.9611_n	1.1637	1.1107_n	
14.879	0.6198	9.8272	0.9633_n	1.1695	1.1016_n	
15.877	0.6225	9.8291	0.9659_n	1.1751	1.0922_n	
16.874	0.6253	9.8305	0.9686_n	1.1805	1.0824_n	
17.871	0.6280	9.8313	0.9709_n	1.1857	1.0723_n	
18.869	0.6307	9.8318	0.9724_n	1.1908	1.0618_n	
19.866	0.6335	9.8322	0.9732_n	1.1957	1.0510_n	
20.863	0.6362	9.8326	0.9731_n	1.2004	1.0397_n	
21.860	0.6389	9.8334	0.9724_n	1.2049	1.0280_n	
22.858	0.6417	9.8348	0.9713_n	1.2093	1.0158_n	
23.855	0.6444	9.8366	0.9702_n	1.2135	1.0032_n	
24.852	0.6471	9.8389	0.9694_n	1.2175	0.9901_n	
25.849	0.6498	9.8416	0.9694_n	1.2214	0.9763_n	
26.847	0.6526	9.8443	0.9702_n	1.2251	0.9620_n	
27.844	0.6553	9.8470	0.9718_n	1.2287	0.9471_n	
28.841	0.6580	9.8492	0.9740_n	1.2321	0.9316_n	
29.838	0.6608	9.8510	0.9764_n	1.2354	0.9153_n	
30.836	0.6635	9.8523	0.9787_n	1.2386	0.8983_n	
31.833	0.6662	9.8531	0.9805_n	1.2416	0.8804_n	
Sept. 1.830	0.6690	9.8537	0.9817_n	1.2444	0.8616_n	
2.828	0.6717	9.8542	0.9819_n	1.2471	0.8418_n	
3.825	0.6744	9.8549	0.9814_n	1.2497	0.8209_n	−6.621
4.822	0.6771	9.8559	0.9802_n	1.2521	0.7989_n	6.293
5.819	0.6799	9.8561	0.9788_n	1.2544	0.7755_n	5.963
6.817	0.6826	9.8592	0.9776_n	1.2566	0.7507_n	5.632
7.814	0.6853	9.8615	0.9768_n	1.2586	0.7241_n	5.299
8.811	0.6881	9.8639	0.9767_n	1.2605	0.6958_n	−4.963
9.808	0.6908	9.8662	0.9774_n	1.2623	0.6652_n	4.626
10.806	0.6935	9.8683	0.9789_n	1.2639	0.6323_n	4.288
11.803	0.6963	9.8700	0.9808_n	1.2655	0.5964_n	3.949
12.800	0.6990	9.8711	0.9829_n	1.2668	0.5572_n	3.608
13.798	0.7017	9.8718	0.9848_n	1.2681	0.5140_n	−3.265
14.795	0.7045	9.8720	0.9860_n	1.2692	0.4657_n	2.922
15.792	0.7072	9.8721	0.9865_n	1.2702	0.4113_n	2.578

$E = +0.''01$

Konstanten für die Sterntage 1913,

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Datum in Mittl. Zeit	τ	log. A	log. B	log. C	log. D	D
Sept. 15.792	0.7072	9.8721	0.9865$_n$	1.2702	0.4113$_n$	−2.578
16.789	0.7099	9.8721	0.9862$_n$	1.2711	0.3488$_n$	2.233
17.787	0.7126	9.8725	0.9851$_n$	1.2718	0.2757$_n$	1.887
18.784	0.7154	9.8732	0.9835$_n$	1.2725	0.1874$_n$	1.540
19.781	0.7181	9.8745	0.9818$_n$	1.2729	0.0763$_n$	1.192
20.778	0.7208	9.8762	0.9803$_n$	1.2733	9.9265$_n$	−0.844
21.776	0.7236	9.8783	0.9793$_n$	1.2736	9.6954$_n$	0.496
22.773	0.7263	9.8806	0.9791$_n$	1.2737	9.1675$_n$	−0.147
23.770	0.7290	9.8829	0.9796$_n$	1.2737	9.3051	+0.202
24.767	0.7318	9.8849	0.9809$_n$	1.2735	9.7412	0.551
25.765	0.7345	9.8866	0.9825$_n$	1.2733	9.9544	+0.900
26.762	0.7372	9.8878	0.9842$_n$	1.2729	0.0967	1.249
27.759	0.7400	9.8886	0.9855$_n$	1.2724	0.2036	1.598
28.757	0.7427	9.8891	0.9861$_n$	1.2717	0.2894	1.947
29.754	0.7454	9.8895	0.9860$_n$	1.2709	0.3608	2.295
30.751	0.7481	9.8899	0.9850$_n$	1.2700	0.4221	+2.643
Okt. 1.748	0.7509	9.8906	0.9833$_n$	1.2690	0.4757	2.990
2.746	0.7536	9.8917	0.9812$_n$	1.2678	0.5233	3.337
3.743	0.7563	9.8933	0.9791$_n$	1.2665	0.5662	3.683
4.740	0.7591	9.8952	0.9773$_n$	1.2651	0.6051	4.028
5.737	0.7618	9.8974	0.9762$_n$	1.2635	0.6406	+4.372
6.735	0.7645	9.8996	0.9758$_n$	1.2618	0.6734	4.714
7.732	0.7673	9.9017	0.9762$_n$	1.2600	0.7038	5.056
8.729	0.7700	9.9034	0.9772$_n$	1.2580	0.7321	5.396
9.727	0.7727	9.9047	0.9785$_n$	1.2559	0.7586	5.736
10.724	0.7754	9.9056	0.9797$_n$	1.2537	0.7834	+6.073
11.721	0.7782	9.9060	0.9805$_n$	1.2513	0.8068	6.409
12.718	0.7809	9.9062	0.9806$_n$	1.2487	0.8288	
13.716	0.7836	9.9063	0.9798$_n$	1.2461	0.8497	
14.713	0.7864	9.9066	0.9782$_n$	1.2432	0.8696	
15.710	0.7891	9.9072	0.9760$_n$	1.2402	0.8884	
16.707	0.7918	9.9083	0.9734$_n$	1.2371	0.9063	
17.705	0.7946	9.9099	0.9710$_n$	1.2338	0.9235	
18.702	0.7973	9.9119	0.9690$_n$	1.2304	0.9398	
19.699	0.8000	9.9142	0.9677$_n$	1.2267	0.9555	
20.696	0.8028	9.9165	0.9672$_n$	1.2230	0.9704	
21.694	0.8055	9.9187	0.9675$_n$	1.2190	0.9848	
22.691	0.8082	9.9206	0.9684$_n$	1.2149	0.9986	

$E = 0''.00$

Konstanten für die Sterntage 1913,

gültig für die Sternzeitepochen $6^h\ 38^m.9$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
Okt. 22.691	0.8082	9.9206	0.9684_n	1.2149	0.9986
23.688	0.8109	9.9220	0.9694_n	1.2106	1.0118
24.686	0.8137	9.9232	0.9703_n	1.2062	1.0246
25.683	0.8164	9.9239	0.9706_n	1.2015	1.0368
26.680	0.8191	9.9246	0.9702_n	1.1967	1.0486
27.677	0.8219	9.9252	0.9688_n	1.1917	1.0599
28.675	0.8246	9.9260	0.9667_n	1.1865	1.0709
29.672	0.8273	9.9272	0.9641_n	1.1810	1.0814
30.669	0.8301	9.9287	0.9613_n	1.1754	1.0916
31.666	0.8328	9.9307	0.9586_n	1.1696	1.1014
Nov. 1.664	0.8355	9.9330	0.9566_n	1.1636	1.1109
2.661	0.8382	9.9354	0.9553_n	1.1573	1.1201
3.658	0.8410	9.9377	0.9549_n	1.1508	1.1289
4.656	0.8437	9.9398	0.9553_n	1.1441	1.1375
5.653	0.8464	9.9415	0.9561_n	1.1371	1.1457
6.650	0.8492	9.9428	0.9570_n	1.1299	1.1537
7.647	0.8519	9.9437	0.9577_n	1.1224	1.1614
8.645	0.8546	9.9443	0.9577_n	1.1146	1.1688
9.642	0.8574	9.9448	0.9568_n	1.1066	1.1760
10.639	0.8601	9.9453	0.9551_n	1.0983	1.1829
11.636	0.8628	9.9461	0.9527_n	1.0896	1.1896
12.634	0.8656	9.9474	0.9499_n	1.0807	1.1961
13.631	0.8683	9.9490	0.9469_n	1.0714	1.2024
14.628	0.8710	9.9511	0.9443_n	1.0618	1.2084
15.626	0.8737	9.9534	0.9424_n	1.0518	1.2142
16.623	0.8765	9.9559	0.9414_n	1.0415	1.2198
17.620	0.8792	9.9584	0.9413_n	1.0307	1.2252
18.617	0.8819	9.9606	0.9419_n	1.0196	1.2304
19.615	0.8847	9.9625	0.9429_n	1.0080	1.2355
20.612	0.8874	9.9640	0.9439_n	0.9959	1.2403
21.609	0.8901	9.9652	0.9445_n	0.9834	1.2450
22.606	0.8929	9.9662	0.9444_n	0.9703	1.2494
23.604	0.8956	9.9672	0.9434_n	0.9567	1.2537
24.601	0.8983	9.9682	0.9415_n	0.9425	1.2578
25.598	0.9010	9.9696	0.9390_n	0.9277	1.2618
26.595	0.9038	9.9712	0.9361_n	0.9122	1.2656
27.593	0.9065	9.9733	0.9334_n	0.8960	1.2692
28.590	0.9092	9.9756	0.9311_n	0.8790	1.2726

$E = 0''.00$

Konstanten für die Sterntage 1913,

gültig für die Sternzeitepochen 6^h $38^m.9$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Nov. 28.590	0.9092	9.9756	0.9311_n	0.8790	1.2726	
29.587	0.9120	9.9781	0.9297_n	0.8612	1.2759	
30.585	0.9147	9.9806	0.9291_n	0.8424	1.2791	
Dez. 1.582	0.9174	9.9830	0.9295_n	0.8227	1.2820	
2.579	0.9202	9.9850	0.9306_n	0.8019	1.2849	+6.338
3.576	0.9229	9.9867	0.9319_n	0.7799	1.2876	+6.024
4.574	0.9256	9.9879	0.9332_n	0.7565	1.2901	5.709
5.571	0.9284	9.9889	0.9339_n	0.7317	1.2924	5.392
6.568	0.9311	9.9897	0.9338_n	0.7053	1.2947	5.073
7.565	0.9338	9.9905	0.9328_n	0.6769	1.2968	4.752
8.563	0.9365	9.9914	0.9311_n	0.6464	1.2987	+4.430
9.560	0.9393	9.9926	0.9287_n	0.6135	1.3005	4.107
10.557	0.9420	9.9943	0.9262_n	0.5777	1.3021	3.782
11.555	0.9447	9.9963	0.9238_n	0.5386	1.3036	3.456
12.552	0.9475	9.9986	0.9221_n	0.4953	1.3050	3.129
13.549	0.9502	0.0010	0.9213_n	0.4472	1.3062	+2.800
14.546	0.9529	0.0035	0.9215_n	0.3929	1.3073	2.471
15.544	0.9557	0.0059	0.9226_n	0.3306	1.3083	2.141
16.541	0.9584	0.0079	0.9242_n	0.2577	1.3091	1.810
17.538	0.9611	0.0097	0.9260_n	0.1698	1.3098	1.479
18.535	0.9638	0.0111	0.9276_n	0.0594	1.3103	+1.147
19.533	0.9666	0.0122	0.9285_n	9.9107	1.3107	0.814
20.530	0.9693	0.0132	0.9286_n	9.6826	1.3110	0.482
21.527	0.9720	0.0143	0.9279_n	9.1722	1.3111	+0.149
22.524	0.9748	0.0156	0.9263_n	9.2654_n	1.3111	−0.184
23.522	0.9775	0.0171	0.9243_n	9.7137_n	1.3110	−0.517
24.519	0.9802	0.0189	0.9223_n	9.9294_n	1.3107	0.850
25.516	0.9830	0.0211	0.9206_n	0.0729_n	1.3103	1.183
26.514	0.9857	0.0234	0.9196_n	0.1804_n	1.3097	1.515
27.511	0.9884	0.0258	0.9196_n	0.2664_n	1.3090	1.847
28.508	0.9911	0.0281	0.9205_n	0.3380_n	1.3082	−2.178
29.505	0.9939	0.0301	0.9223_n	0.3994_n	1.3072	2.508
30.503	0.9966	0.0319	0.9245_n	0.4531_n	1.3061	2.838
31.500	0.9993	0.0332	0.9267_n	0.5007_n	1.3048	3.167
32.497	1.0021	0.0342	0.9286_n	0.5435_n	1.3035	3.495
33.494	1.0048	0.0350	0.9298_n	0.5823_n	1.3019	−3.822
34.492	1.0075	0.0357	0.9302_n	0.6178_n	1.3003	4.147
35.489	1.0103	0.0365	0.9296_n	0.6505_n	1.2984	4.472

$E = +0^s.01$

Konstanten für die mittleren Tage 1913,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12^h Mittl. Zeit	f	log. g	G	12^h Mittl. Zeit	f	log. g	G
Jan. 0	+136.59″	1.77828	351° 50.8′	April 26	+151.49	1.82308	351° 58.4′
4	137.32	1.78057	351 51.2	30	152.01	1.82447	352 3.6
8	138.03	1.78281	351 51.1	Mai 4	152.55	1.82592	352 9.0
12	138.73	1.78501	351 50.5	8	153.11	1.82743	352 14.4
16	139.41	1.78715	351 49.4	12	153.69	1.82898	352 19.8
20	+140.07	1.78923	351 47.8	16	+154.29	1.83059	352 25.2
24	140.71	1.79125	351 45.8	20	154.91	1.83224	352 30.3
28	141.33	1.79320	351 43.6	24	155.55	1.83394	352 35.1
Febr. 1	141.93	1.79507	351 41.2	28	156.20	1.83569	352 39.8
5	142.50	1.79686	351 38.8	Juni 1	156.87	1.83747	352 44.2
9	+143.05	1.79857	351 36.3	5	+157.56	1.83929	352 48.2
13	143.57	1.80020	351 33.9	9	158.25	1.84114	352 51.7
17	144.07	1.80176	351 31.6	13	158.95	1.84301	352 54.7
21	144.55	1.80325	351 29.5	17	159.65	1.84489	352 57.3
25	145.02	1.80466	351 27.8	21	160.36	1.84677	352 59.4
März 1	+145.46	1.80602	351 26.3	25	+161.07	1.84865	353 1.1
5	145.89	1.80733	351 25.3	29	161.77	1.85053	353 2.3
9	146.31	1.80859	351 24.8	Juli 3	162.47	1.85239	353 3.0
13	146.72	1.80981	351 24.8	7	163.17	1.85423	353 3.3
17	147.13	1.81099	351 25.3	11	163.85	1.85604	353 3.1
21	+147.53	1.81216	351 26.4	15	+164.52	1.85782	353 2.5
25	147.93	1.81332	351 28.0	19	165.17	1.85955	353 1.6
29	148.33	1.81447	351 30.2	23	165.81	1.86124	353 0.4
April 2	148.75	1.81562	351 32.9	27	166.43	1.86289	352 58.9
6	149.17	1.81679	351 36.1	31	167.03	1.86449	352 57.3
10	+149.60	1.81798	351 39.8	Aug. 4	+167.61	1.86602	352 55.5
14	150.05	1.81920	351 43.9	8	168.17	1.86750	352 53.6
18	150.51	1.82045	351 48.4	12	168.71	1.86893	352 51.7
22	150.99	1.82174	351 53.3	16	169.23	1.87030	352 49.8
26	151.49	1.82308	351 58.4	20	169.73	1.87160	352 48.0

Konstanten für die mittleren Tage 1913,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12h Mittl. Zeit		f	log. g	G	12h Mittl. Zeit		f	log. g	G
Aug.	20	+169.73″	1.87160	352° 48.0′	Okt.	31	+177.63″	1.89095	353° 14.6′
	24	170.21	1.87285	352 46.4	Nov.	4	178.16	1.89220	353 19.3
	28	170.67	1.87405	352 45.0		8	178.72	1.89349	353 24.1
Sept.	1	171.12	1.87521	352 43.8		12	179.31	1.89482	353 29.0
	5	171.56	1.87633	352 43.0		16	179.92	1.89621	353 33.8
	9	+171.98	1.87741	352 42.5		20	+180.55	1.89767	353 38.5
	13	172.39	1.87845	352 42.4		24	181.20	1.89918	353 43.0
	17	172.80	1.87946	352 42.7		28	181.87	1.90073	353 47.3
	21	173.20	1.88046	352 43.5	Dez.	2	182.56	1.90232	353 51.2
	25	173.60	1.88144	352 44.7		6	183.26	1.90393	353 54.8
	29	+174.00	1.88242	352 46.3		10	+183.98	1.90558	353 58.0
Okt.	3	174.41	1.88340	352 48.5		14	184.71	1.90726	354 0.8
	7	174.82	1.88439	352 51.1		18	185.44	1.90895	354 3.1
	11	175.25	1.88540	352 54.2		22	186.17	1.91064	354 4.9
	15	175.69	1.88644	352 57.6		26	186.91	1.91233	354 6.3
	19	+176.15	1.88751	353 1.4		30	+187.64	1.91402	354 7.1
	23	176.62	1.88861	353 5.6		34	188.37	1.91569	354 7.5
	27	177.11	1.88976	353 10.0		38	189.08	1.91733	354 7.5
	31	177.63	1.89095	353 14.6		42	189.78	1.91893	354 7.1

Red. in $\alpha = f + g \sin (G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = g \cos (G + \alpha)$

Im Jahre 1913 werden drei Sonnen- und zwei Mondfinsternisse stattfinden, von denen jedoch keine in unseren Gegenden sichtbar sein wird.

I. Totale Mondfinsternis 1913 März 21—22,

unsichtbar in Berlin.

Elemente der Finsternis

nach mittlerer Berliner Zeit.

☍ in AR	März 22	$0^h 41^m 48^s.2$
☾ AR.		12 4 37.54
☾ Dekl.		$-0° 18' 28''.5$
☉ »		+0 30 6.0
☾ stündliche Bewegung in AR. .		33 2.8
☉ » » » » .		2 16.4
☾ » » » Dekl. .		—18 7.3
☉ » » » » .		+ 59.2
☾ Äquatorial-Horizontal-Parallaxe		60 58.5
☉ » » »		8.8
☾ Halbmesser		16 36.9
☉ »		16 2.7

Anfang der Finsternis überhaupt	März 21	$23^h 6^m.4$	mittl. Berl. Zt.
Anfang der totalen Finsternis . .	» 22	0 4.7	» » »
Mitte der Finsternis	» 22	0 51.4	» » »
Ende der totalen Finsternis . . .	» 22	1 38.2	» » »
Ende der Finsternis überhaupt . .	» 22	2 36.5	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

$207° 46'$ östl. Länge von Greenwich	$0° 10'$	nördl. Br.
193 41 » » » »	0 7	südl. »
182 24 » » » »	0 21	» »
171 7 » » » »	0 36	» »
157 2 » » » »	0 53	» »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 128°
» » Austritts » » » = 290
Größe der Verfinsterung in Teilen des Monddurchmessers = 1.575

Die Finsternis wird demnach sichtbar sein in Nordamerika, in der westlichen Hälfte Südamerikas, im Stillen Ozean, in Australien, in der östlichen Hälfte des Indischen Ozeans und in Asien mit Ausnahme von Persien, Arabien und Kleinasien.

II. Partielle Sonnenfinsternis 1913 April 6,

unsichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ.

	4h 13m 5s.7	5h 25m 6s.6	6h 37m 7s.4	7h 49m 8s.3	9h 1m 9s.2
τ	63°.2738	81°.2774	99°.2810	117°.2846	135°.2882
λ☾	15° 5′ 6″.3	15° 41′ 36″.7	16° 18′ 8″.8	16° 54′ 42″.4	17° 31′ 17″.5
β☾	+1 5 34.6	+1 8 52.1	+1 12 9.4	+1 15 26.2	+1 18 42.7
π☾	0 54 47.8	0 54 48.9	0 54 50.0	0 54 51.1	0 54 52.1
$\Delta\alpha'$☉	−0 0 14.21	−0 0 9.39	−0 0 4.58	+0 0 0.24	+0 0 5.06
δ'☉	+6 22 53.5	+6 23 59.0	+6 25 4.5	+6 26 10.0	+6 27 15.5
N'	61 49 39.5	61 50 23.1	61 51 7.0	61 51 51.4	61 52 36.8
γ	+1.314900	+1.314914	+1.314927	+1.314941	+1.314956
u'_a	+0.565468	+0.565406	+0.565315	+0.565195	+0.565046
u'_i	−0.018966	−0.018904	−0.018813	−0.018694	−0.018546
$\log\sin f_a$	7.669414	7.669407	7.669401	7.669394	7.669388
$\log\sin f_i$	7.667243_n	7.667237_n	7.667230_n	7.667224_n	7.667217_n
$\log n$	9.711047	9.711087	9.711109	9.711112	9.711100
μ	96°.0726	96°.0777	96°.0827	96°.0877	96°.0927
k	62° 1′ 3″.5	62° 1′ 50″.5	62° 2′ 37″.9	62° 3′ 25″.9	62° 4′ 14″.7
g	28 49 41.8	28 49 12.6	28 48 43.4	28 48 13.6	28 47 42.8
K	86 35 35.8	86 35 7.3	86 34 38.9	86 34 10.5	86 33 42.1
G	11 43 27.2	11 45 44.7	11 48 2.4	11 50 20.4	11 52 38.9

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternis	4h 48m.0	207° 33′	+28° 50′
Größte Verfinsterung	6 26.5	174 24	+61 3
Ende der Finsternis	8 5.2	40 43	+81 29

Die größte Verfinsterung beträgt in Teilen des Sonnendurchmessers 0.424.

Grenzkurven für die Sichtbarkeit der Finsternis.

Westl. Grenze		Südl. Grenze		Östl. Grenze	
O. L. Gr.	Breite	O. L. Gr.	Breite	O. L. Gr.	Breite
73° 6′	+82° 46′	204° 1′	+20° 22′	16° 39′	+75° 29′
112 18	80 44	223 54	25 46	21 46	75 58
141 37	74 19	235 17	33 30	36 24	78 58
152 50	67 24	244 12	43 22	67 51	+82 17
160 33	61 1	252 27	53 33		
167 0	54 32	261 58	62 20		
173 36	47 9	273 30	68 47		
180 33	39 5	286 43	73 2		
187 20	31 30	300 58	75 38		
193 56	25 10	315 48	77 4		
204 1	+20 22	330 57	77 41		
		346 18	77 34		
		1 48	76 44		
		16 39	+75 29		

Die nördliche Grenzkurve ist imaginär.

Die Finsternis wird demnach an der Nordostspitze Asiens, im nordwestlichen Nordamerika und in den nördlichen Polargegenden sichtbar sein.

III. Partielle Sonnenfinsternis 1913 August 31,

unsichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ.

	7h 12m 6s.4	8h 24m 7s.3	9h 36m 8s.2	10h 48m 9s.1	12h 0m 10s.1
τ	108°.0266	126°.0304	144°.0342	162°.0381	180°.0419
λ ☾	156° 20′ 12″.6	157° 5′ 43″.1	157° 51′ 14″.1	158° 36′ 45″.6	159° 22′ 17″.5
β ☾	+1 36 52.5	+1 32 52.3	+1 28 51.1	+1 24 48.8	+1 20 45.5
π ☾	1 1 16.5	1 1 17.0	1 1 17.4	1 1 17.8	1 1 18.2
$\Delta\alpha'$ ☉	−0 0 5.82	−0 0 0.32	+0 0 5.17	+0 0 10.67	+0 0 16.16
δ' ☉	+8 40 39.4	+8 39 37.2	+8 38 35.1	+8 37 32.9	+8 36 30.7
N'	117 16 2.7	117 17 1.2	117 18 0.5	117 19 0.4	117 20 1.0
γ	+1.450921	+1.450906	+1.450890	+1.450874	+1.450858
u'_a	+0.532280	+0.532312	+0.532308	+0.532267	+0.532190
u'_i	+0.014056	+0.014024	+0.014028	+0.014069	+0.014146
$\log \sin f_a$	7.665847	7.665852	7.665857	7.665862	7.665867
$\log \sin f_i$	7.663676_n	7.663681_n	7.663686_n	7.663691_n	7.663696_n
$\log n$	9.765705	9.765742	9.765760	9.765757	9.765732
μ	146°.3731	146°.3792	146°.3855	146°.3920	146°.3989
k	116° 55′ 47″.6	116° 56′ 50″.0	116° 57′ 53″.1	116° 58′ 57″.0	117° 0′ 1″.7
g	28 30 49.2	28 31 27.2	28 32 6.3	28 32 46.0	28 33 26.1
K	94 26 47.6	94 26 27.3	94 26 7.0	94 25 46.8	94 25 26.6
G	163 41 2.8	163 43 31.1	163 45 59.8	163 48 29.0	163 50 58.7

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternis	8h 56m.1	15° 59′	+77° 4′
Größte Verfinsterung	9 46.1	334 37	+61 14
Ende der Finsternis	10 36.0	313 53	+43 26

Die größte Verfinsterung beträgt in Teilen des Sonnendurchmessers 0.152.

Grenzkurven für die Sichtbarkeit der Finsternis.

Südl. Grenze		Westl. Grenze		Östl. Grenze	
O. L. Gr.	Breite	O. L. Gr.	Breite	O. L. Gr.	Breite
314° 43′	+39° 6′	31° 54′	+79° 34′	31° 54′	+79° 34′
298 15	45 23			358 56	71 49
290 53	50 54			341 52	61 13
285 45	58 47			337 7	57 7
283 38	66 12			329 34	50 0
286 7	74 16			324 53	45 34
305 19	82 17			321 4	42 17
336 18	84 12			317 51	40 2
5 50	83 40			314 43	+39 6
31 54	+79 34				

Die nördliche Grenzkurve ist imaginär.

Die Finsternis wird demnach an der nordöstlichen Küste Nordamerikas und in Grönland sichtbar sein.

IV. Totale Mondfinsternis 1913 September 14—15,
unsichtbar in Berlin.

Elemente der Finsternis
nach mittlerer Berliner Zeit.

☌ in AR.	Sept. 15	$1^h 28^m 5^s.0$
☾ AR.		23 30 47.56
☾ Dekl.		$-3° 22' 22''.7$
☉ »		+3 9 21.6
☾ stündliche Bewegung in AR.		26 3.4
☉ » » » »		2 14.6
☾ » » » Dekl.		+14 8.8
☉ » » » »		— 57.7
☾ Äquatorial-Horizontal-Parallaxe		53 57.9
☉ » » »		8.8
☾ Halbmesser		14 42.3
☉ »		15 54.6

Anfang der Finsternis überhaupt	Sept. 14	$23^h 46^m.5$	mittl. Berl. Zt.
Anfang der totalen Verfinsterung	» 15	0 55.0	» » »
Mitte der Finsternis	» 15	1 42.0	» » »
Ende der totalen Verfinsterung	» 15	2 29.1	» » »
Ende der Finsternis überhaupt	» 15	3 37.6	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

194° 57'	östl. Länge von Greenwich	3° 46'	südl. Br.
178 16	» » » »	3 30	» »
166 49	» » » »	3 19	» »
155 22	» » » »	3 8	» »
138 41	» » » »	2 52	» »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 49°
» » Austritts » » » = 253

Größe der Verfinsterung in Teilen des Monddurchmessers = 1.435

Die Finsternis wird demnach sichtbar im größten Teil von Nord- und Zentralamerika, im Stillen Ozean, in Australien, in Asien mit Ausnahme von Kleinasien und im Indischen Ozean.

V. Partielle Sonnenfinsternis 1913 September 29,

unsichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ.

	15h 52m 41s.1	17h 4m 42s.1	18h 16m 43s.1	19h 28m 44s.1	20h 40m 45s.0
τ	238°.1713	256°.1754	274°.1795	292°.1836	310°.1877
λ☾	185° 4′ 51″.8	185° 50′ 23″.3	186° 35′ 54″.4	187° 21′ 24″.9	188° 6′ 54″.7
β☾	−1 0 21.4	−1 4 28.9	−1 8 35.8	−1 12 41.8	−1 16 47.0
π☾	1 1 18.4	1 1 18.0	1 1 17.5	1 1 17.0	1 1 16.5
Δα′⊙	−0 0 13.28	−0 0 7.89	−0 0 2.50	+0 0 2.89	+0 0 8.28
δ′⊙	−2 31 0.0	−2 32 7.1	−2 33 14.2	−2 34 21.3	−2 35 28.5
N'	118 51 48.4	118 51 15.2	118 50 41.1	118 50 6.4	118 49 31.5
γ	−1.101062	−1.101096	−1.101131	−1.101167	−1.101203
u'_a	+0.534271	+0.534348	+0.534389	+0.534393	+0.534359
u'_i	+0.012075	+0.011998	+0.011958	+0.011954	+0.011988
log sin f_a	7.669261	7.669267	7.669273	7.669280	7.669286
log sin f_i	7.667090_n	7.667096_n	7.667103_n	7.667109_n	7.667115_n
log n	9.765331	9.765354	9.765353	9.765326	9.765274
μ	267°.2861	267°.2900	267°.2937	267°.2971	267°.3001
k	118° 49′ 58″.9	118° 49′ 23″.8	118° 48′ 48″.2	118° 48′ 12″.1	118° 47′ 35″.7
g	28 57 49.0	28 57 20.8	28 56 52.1	28 56 23.4	28 55 55.2
K	88 36 48.7	88 36 13.7	88 35 38.8	88 35 3.9	88 34 29.0
G	184 33 17.0	184 35 24.1	184 37 31.6	184 39 39.2	184 41 46.8

	Mittl. Zeit Berlin	Ö. L. Gr.	Breite
Beginn der Finsternis	15h 49m.4	41° 58′	−17° 2′
Größte Verfinsterung	17 39.7	10 38	−61 1
Ende der Finsternis	19 29.0	181 5	−74 31

Die größte Verfinsterung beträgt in Teilen des Sonnendurchmessers 0.825.

Grenzkurven für die Sichtbarkeit der Finsternis.

Westl. Grenze		Nördl. Grenze		Östl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
261° 18′	−86° 41′	36° 36′	− 5° 41′	181° 23′	−63° 26′
343 5	75 53	52 17	7 34	188 12	66 11
351 34	67 54	64 55	11 56	195 58	72 9
1 21	54 3	75 28	18 36	208 45	79 52
6 10	45 56	84 19	26 55	219 3	82 14
11 17	36 52	92 23	35 44	284 8	−86 55
16 24	27 49	100 51	43 56		
21 36	19 17	110 30	50 48		
26 58	11 58	121 30	56 4		
32 28	6 58	133 43	59 49		
36 36	− 5 41	146 51	62 14		
		160 37	63 29		
		181 23	−63 26		

Die südliche Grenzkurve ist imaginär.

Die Finsternis wird demnach im östlichen Südafrika, auf Madagaskar, im südlichen Teil des Indischen Ozeans und in der Südpolargegend sichtbar sein.

Verzeichnis von Fixsternen, welche im Jahre 1913 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1913.0	Mittl. Dekl. 1913.0
			h m s	° ′ ″
1	δ Piscium	4.4	0 44 10.02	+ 7 6 42.2
2	ε Piscium	4.2	0 58 25.57	+ 7 25 19.1
3	ε Arietis	4.6	2 54 14.03	+20 59 34.5
4	ζ Arietis	4.9	3 9 53.85	+20 43 21.5
5	τ¹ Arietis	5.4	3 16 12.06	+20 50 2.6
6	17 Tauri	4.0	3 39 42.37	+23 50 26.0
7	19 Tauri	4.4	3 40 1.51	+24 11 41.8
8	20 Tauri	3.9	3 40 38.83	+24 5 47.6
9	23 Tauri	4.2	3 41 9.57	+23 40 40.5
10	η Tauri	3.0	3 42 18.60	+23 50 12.6
11	27 Tauri	3.8	3 43 59.16	+23 47 17.3
12	φ Tauri	5.1	4 15 0.04	+27 8 36.0
13	χ Tauri	5.5	4 17 17.13	+25 25 28.7
14	β Tauri	1.8	5 20 47.47	+28 32 5.6
15	136 Tauri	4.7	5 47 51.57	+27 35 33.2
16	κ Aurigae	4.5	6 9 50.09	+29 31 51.6
17	49 Aurigae	5.3	6 29 43.32	+28 5 27.3
18	ι Geminorum	3.8	7 20 19.52	+27 58 18.7
19	b^1 Geminorum	5.2	7 23 55.36	+28 17 53.8
20	b^2 Geminorum	5.1	7 24 24.18	+28 5 46.4
21	υ Geminorum	4.2	7 30 33.82	+27 5 23.4
22	κ Geminorum	3.4	7 39 11.85	+24 36 26.8
23	φ Geminorum	5.1	7 48 10.50	+26 59 30.2
24	γ Cancri	4.7	8 38 15.23	+21 46 54.9
25	ρ Leonis	3.8	10 28 13.90	+ 9 45 16.6
26	*l* Leonis	5.4	10 44 41.14	+11 0 20.9
27	*c* Leonis	5.2	10 56 14.28	+ 6 34 8.4
28	χ Leonis	4.8	11 0 31.82	+ 7 48 23.6

Verzeichnis von Fixsternen, welche im Jahre 1913 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1913.0	Mittl. Dekl. 1913.0
			h m s	° ′ ″
29	σ Leonis	4.1	11 16 39.07	+ 6 30 22.6
30	τ Leonis	5.3	11 23 27.81	+ 3 20 7.5
31	β Virginis	3.5	11 46 9.81	+ 2 15 18.0
32	ψ Virginis	5.0	12 49 49.61	− 9 4 0.0
33	α Virginis	1.1	13 20 36.45	−10 42 27.1
34	*b* Scorpii	4.8	15 45 44.59	−25 29 15.5
35	*A* Scorpii	4.7	15 48 23.15	−25 4 5.3
36	π Scorpii	4.1	15 53 35.11	−25 51 52.3
37	σ Scorpii	3.1	16 15 53.84	−25 23 5.7
38	α Scorpii	1.2	16 24 4.22	−26 14 23.3
39	22 Scorpii	4.9	16 24 55.17	−24 55 28.3
40	τ Scorpii	2.9	16 30 27.81	−28 2 11.1
41	*X* Sagittarii	var.	17 42 5.00	−27 47 55.3
42	*W* Sagittarii	var.	17 59 27.75	−29 35 5.6
43	Boss 4577	4.7	18 2 34.33	−28 28 3.6
44	δ Sagittarii	2.7	18 15 25.46	−29 51 57.4
45	φ Sagittarii	3.2	18 40 13.30	−27 4 52.0
46	τ Sagittarii	3.3	19 1 30.58	−27 47 54.7
47	*h* Sagittarii	4.6	19 31 24.86	−25 4 35.2
48	ω Sagittarii	4.8	19 50 30.75	−26 31 51.6
49	*A* Sagittarii	5.0	19 53 39.26	−26 25 54.8
50	η Capricorni . . .	5.0	20 59 27.33	−20 11 59.0
51	γ Capricorni . . .	3.6	21 35 16.37	−17 3 20.7
52	δ Capricorni . . .	2.8	21 42 14.44	−16 31 21.3
53	ι Aquarii	4.2	22 1 44.41	−14 17 31.8
54	σ Aquarii	4.9	22 26 2.66	−11 7 24.9
55	λ Aquarii	3.8	22 48 4.60	− 8 2 34.2
56	φ Aquarii	4.4	23 9 49.02	− 6 31 5.5

Elemente der Sternbedeckungen 1913.

Nr.	Zeit der Konj. in AR. d h m	q	p'	q'
	Jan.			
35	3 6 16.2	+1.0400	5481	−1526
37	3 18 23.3	−0.2983	5532	−1242
38	3 21 57.0	+0.1922	5544	−1154
39	3 22 19.2	−1.2628	5545	−1145
50	9 0 26.0	−1.3062	5192	+1809
51	9 18 38.8	−1.2497	5071	+2076
52	9 22 17.1	−1.0780	5049	+2122
53	10 8 37.8	−1.2975	4992	+2241
56	11 22 21.0	−0.8580	4841	+2531
2	14 11 54.2	−0.2112	4909	+2572
3	16 22 38.2	−0.9108	5370	+2019
4	17 5 44.6	+0.7663	5446	+1898
5	17 8 32.9	+1.1728	5478	+1846
6	17 18 44.6	−0.1835	5590	+1638
7	17 18 52.8	−0.5293	5591	+1636
8	17 19 8.6	−0.3840	5594	+1630
9	17 19 21.7	+0.0861	5596	+1625
10	17 19 50.9	+0.0002	5602	+1615
11	17 20 33.4	+0.1644	5609	+1599
13	18 10 15.4	+0.4410	5758	+1265
14	19 10 44.5	−0.4880	5981	+0538
15	19 20 43.2	+0.8318	6044	+0204
16	20 4 42.1	−1.0565	6077	−0073
17	20 11 51.9	+0.2386	6096	−0326
18	21 6 3.3	−0.8156	6083	−0961
19	21 7 21.3	−1.2653	6079	−1005
20	21 7 31.7	−1.0835	6079	−1011
21	21 9 45.6	−0.3239	6070	−1086
23	21 16 10.3	−0.9900	6042	−1296
24	22 10 50.1	+1.1762	5925	−1848
26	24 14 35.2	−0.6006	5501	−2768
28	24 21 37.7	+0.5886	5452	−2821
29	25 4 54.7	−0.1943	5408	−2860
31	25 18 31.4	+0.1112	5340	−2892
33	27 15 26.5	+0.5542	5266	−2662
35	30 11 50.7	+0.7938	5469	−1509
36	30 14 8.9	+1.3027	5478	−1455
37	30 23 57.6	−0.5219	5509	−1222

Nr.	Zeit der Konj. in AR. d h m	q	p'	q'
	Jan.			
38	31 3 31.6	−0.0258	5521	−1133
	Febr.			
41	1 13 10.1	−0.6915	5569	−0248
42	1 20 38.4	+1.1455	5564	−0046
43	1 21 58.8	−0.0771	5563	−0010
45	2 14 18.4	−1.2575	5527	+0424
46	2 23 40.3	+0.0394	5492	+0664
56	8 4 50.9	−0.6691	4850	+2554
♀	10 1 6.8	−0.9395	4444	+2401
2	10 18 41.9	+0.0554	4889	+2568
3	13 6 33.2	−0.6638	5293	+1987
4	13 13 51.5	−1.0306	5365	+1865
6	14 3 14.8	+0.0530	5495	+1604
7	14 3 23.2	−0.2982	5496	+1602
8	14 3 39.5	−0.1508	5499	+1596
9	14 3 53.0	+0.3261	5501	+1591
10	14 4 23.1	+0.2383	5506	+1580
11	14 5 7.0	+0.4043	5514	+1565
12	14 18 18.3	−1.2437	5644	+1256
13	14 19 15.2	+0.6673	5654	+1232
14	15 20 32.4	−0.3134	5874	+0515
15	16 6 50.1	+1.0088	5936	+0185
16	16 15 3.2	−0.9192	5974	−0088
17	16 22 25.2	+0.3798	5999	−0339
18	17 17 3.3	−0.7202	6006	−0969
19	17 18 23.0	−1.1755	6003	−1012
20	17 18 33.6	−0.9932	6004	−1019
21	17 20 50.1	−0.2311	6000	−1094
23	18 3 22.0	−0.9148	5982	−1304
24	18 22 15.9	+1.2220	5891	−1860
26	21 1 44.8	−0.6707	5551	−2815
28	21 8 39.0	+0.4912	5513	−2873
29	21 15 46.1	−0.2985	5478	−2918
31	22 5 0.9	−0.0231	5425	−2957
33	24 0 24.5	+0.3516	5370	−2723
34	26 17 27.4	+1.1975	5526	−1549
35	26 18 35.9	+0.5815	5529	−1521

Elemente der Sternbedeckungen 1913.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	Febr.					März			
	d h m					d h m			
36	26 20 50.9	+1.0850	5535	−1467	31	21 16 20.9	−0.0352	5434	−2969
37	27 6 26.6	−0.7135	5558	−1226	33	23 11 10.7	+0.3045	5440	−2764
38	27 9 56.4	−0.2205	5564	−1136	34	26 2 18.9	+1.1197	5624	−1576
41	28 19 7.1	−0.8576	5574	−0239	35	26 3 25.3	+0.5126	5626	−1548
					36	26 5 35.9	+1.0092	5631	−1492
	März				37	26 14 53.6	−0.7635	5650	−1246
42	1 2 32.3	+0.9760	5561	−0036	38	26 18 17.0	−0.2773	5654	−1154
43	1 3 52.2	−0.2393	5560	0000	41	28 2 34.0	−0.9036	5639	−0240
46	2 5 29.6	−0.0980	5472	+0674	42	28 9 49.3	+0.9108	5617	−0034
48	3 3 39.7	+0.5935	5358	+1197	43	28 11 7.5	−0.2911	5614	+0003
49	3 5 7.2	+0.6607	5349	+1228	44	28 16 32.2	+1.2575	5594	+0153
50	4 12 50.6	−1.3412	5161	+1835	46	29 12 18.8	−0.1459	5501	+0680
51	5 7 10.6	−1.2162	5054	+2106	48	30 10 15.1	+0.5472	5366	+1202
52	5 10 50.0	−1.0308	5034	+2153	49	30 11 41.9	+0.6146	5356	+1234
2	10 0 34.9	+0.1529	4906	+2586					
3	12 12 36.9	−0.5455	5273	+1982		April			
4	12 20 0.4	+1.1630	5336	+1856	51	1 13 38.0	−1.2417	5040	+2103
6	13 9 36.1	+0.1760	5450	+1592	52	1 17 17.5	−1.0559	5019	+2150
7	13 9 44.6	−0.1788	5451	+1589	53	2 3 41.2	−1.2340	4969	+2271
8	13 10 1.2	−0.0300	5454	+1583	56	3 17 25.9	−0.6547	4852	+2571
9	13 10 14.9	+0.4517	5458	+1579	3	8 18 15.0	−0.5622	5308	+1992
10	13 10 45.6	+0.3629	5462	+1568	4	9 1 35.3	+1.1432	5366	+1864
11	13 11 30.3	+0.5309	5468	+1552	6	9 15 6.7	+0.1548	5474	+1597
12	14 0 57.9	−1.1402	5584	+1242	7	9 15 15.2	−0.2002	5476	+1594
13	14 1 56.1	+0.7947	5590	+1218	8	9 15 31.8	−0.0515	5478	+1588
14	15 3 54.8	−0.2086	5779	+0504	9	9 15 45.5	+0.4304	5479	+1583
15	15 14 32.4	+1.1300	5833	+0178	10	9 16 16.1	+0.3416	5484	+1572
16	15 23 2.5	−0.8346	5866	−0092	11	9 17 0.6	+0.5093	5489	+1556
17	16 6 40.3	+0.4824	5882	−0337	12	10 6 27.0	−1.1673	5594	+1242
18	17 1 59.6	−0.6482	5887	−0956	13	10 7 25.3	+0.7723	5600	+1218
19	17 3 22.1	−1.1130	5884	−1000	14	11 9 31.8	−0.2393	5760	+0500
20	17 3 33.2	−0.9268	5884	−1005	15	11 20 16.8	+1.1072	5800	+0175
21	17 5 54.8	−0.1532	5880	−1079	16	12 4 54.6	−0.8752	5821	−0093
23	17 12 41.0	−0.8533	5864	−1286	17	12 12 40.8	+0.4531	5829	−0336
24	18 8 14.7	+1.3030	5786	−1836	18	13 8 27.0	−0.6934	5810	−0945
26	20 12 56.9	−0.6607	5516	−2807	19	13 9 51.8	−1.1643	5806	−0987
28	20 19 55.3	+0.5002	5490	−2871	20	13 10 3.2	−0.9758	5806	−0993
29	21 3 5.3	−0.2991	5465	−2920	21	13 12 28.6	−0.1923	5801	−1065

Elemente der Sternbedeckungen 1913.

Nr.	Zeit der Konj. in AR.	q	p'	q'
	April			
	d h m			
23	13 19 26.6	−0.9028	5777	−1267
24	14 15 38.0	+1.2850	5686	−1802
26	16 22 10.6	−0.6992	5425	−2756
28	17 5 22.2	+0.4812	5404	−2822
29	17 12 44.7	−0.3258	5385	−2873
31	18 2 20.9	−0.0513	5369	−2929
33	19 21 46.7	+0.3181	5434	−2754
34	22 12 21.8	+1.1670	5692	−1589
35	22 13 27.0	+0.5649	5695	−1561
36	22 15 35.1	+1.0588	5703	−1505
37	23 0 41.2	−0.6936	5724	−1257
38	23 4 0.2	−0.2099	5730	−1162
41	24 11 32.5	−0.8128	5718	−0238
42	24 18 37.7	+0.9868	5695	−0030
43	24 19 54.1	−0.2024	5690	+0007
46	25 20 33.0	−0.0487	5562	+0691
48	26 18 6.4	+0.6452	5409	+1212
49	26 19 31.9	+0.7127	5398	+1244
50	28 2 46.8	−1.2550	5162	+1839
51	28 21 0.2	−1.1298	5041	+2101
52	29 0 38.9	−0.9454	5020	+2147
53	29 11 0.9	−1.1257	4963	+2265
	Mai			
56	1 0 45.4	−0.5672	4842	+2558
♂	1 21 17.6	+0.8884	4514	+2495
2	3 14 1.0	+0.1682	4942	+2592
14	8 15 14.9	−0.3512	5810	+0494
15	9 1 52.6	+0.9814	5846	+0167
16	9 10 25.9	−1.0022	5860	−0101
17	9 18 8.8	+0.3172	5861	−0345
18	10 13 51.9	−0.8434	5820	−0952
20	10 15 28.1	−1.1275	5814	−1000
21	10 17 53.8	−0.3443	5805	−1071
23	11 0 53.2	−1.0612	5774	−1271
24	11 21 14.8	+1.1280	5658	−1796
26	14 4 56.1	−0.8658	5348	−2709
28	14 12 19.8	+0.3356	5324	−2771

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Mai			
	d h m			
29	14 19 55.2	−0.4756	5305	−2820
31	15 9 55.7	−0.1822	5286	−2871
33	17 6 32.6	+0.2604	5372	−2704
34	19 21 56.3	+1.2255	5698	−1573
35	19 23 1.6	+0.6230	5700	−1545
36	20 1 9.8	+1.1215	5711	−1489
37	20 10 15.9	−0.6187	5744	−1244
38	20 13 34.4	−0.1286	5753	−1151
41	21 20 54.1	−0.6807	5762	−0226
42	22 3 54.8	+1.1222	5745	−0017
43	22 5 10.3	−0.0606	5740	+0020
45	22 20 35.8	−1.1632	5669	+0465
46	23 5 30.6	+0.1253	5614	+0708
48	24 2 46.7	+0.8406	5459	+1232
49	24 4 11.1	+0.9092	5448	+1264
50	25 11 4.4	−1.0205	5194	+1854
51	26 5 9.0	−0.8860	5061	+2111
52	26 8 46.4	−0.7010	5039	+2156
53	26 19 5.3	−0.8782	4974	+2268
54	27 8 16.9	−1.3030	4908	+2389
56	28 8 47.4	−0.3295	4833	+2546
1	30 14 22.4	−1.3640	4891	+2597
2	30 22 15.0	+0.3335	4927	+2569
	Juni			
18	6 20 12.3	−0.9995	5890	−0979
21	7 0 9.6	−0.5118	5871	−1098
23	7 7 1.4	−1.2340	5837	−1298
24	8 3 3.8	+0.9088	5708	−1823
26	10 10 27.8	−1.1260	5340	−2704
28	10 17 53.9	+0.0775	5308	−2759
29	11 1 32.8	−0.7350	5280	−2802
31	11 15 42.7	−0.4340	5249	−2843
33	13 13 8.0	+0.0723	5306	−2656
34	16 5 49.9	+1.1865	5650	−1536
35	16 6 56.3	+0.5828	5656	−1509
36	16 9 6.6	+1.0901	5664	−1454
37	16 18 20.9	−0.6426	5704	−1212

Elemente der Sternbedeckungen 1913.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	Juni					Juli			
	d h m					d h m			
38	16 21 42.2	—0.1410	5718	—1120	37	14 0 41.3	—0.7854	5651	—1181
41	18 5 20.2	—0.6230	5754	—0203	38	14 4 5.7	—0.2731	5664	—1090
42	18 12 23.0	+1.2017	5740	+0005	41	15 12 12.3	—0.6890	5709	—0180
43	18 13 38.9	+0.0182	5737	+0042	42	15 19 21.1	+1.1628	5698	+0027
45	19 5 6.7	—1.0530	5680	+0486	43	15 20 38.0	—0.0253	5695	+0064
46	19 14 1.6	+0.2569	5631	+0730	45	16 12 17.1	—1.0670	5645	+0506
48	20 11 14.9	+1.0155	5481	+1256	46	16 21 17.5	+0.2696	5604	+0749
49	20 12 39.0	+1.0872	5471	+1287	48	17 18 41.1	+1.0792	5469	+1275
50	21 19 23.8	—0.7827	5221	+1878	49	17 20 5.7	+1.1538	5458	+1306
51	22 13 23.2	—0.6197	5083	+2132	50	19 2 57.8	—0.6515	5223	+1899
52	22 16 59.6	—0.4297	5059	+2175	51	19 20 58.5	—0.4496	5092	+2154
53	23 3 16.2	—0.5939	4993	+2287	52	20 0 35.1	—0.2520	5070	+2198
54	23 16 25.9	—1.0048	4921	+2403	53	20 10 51.7	—0.3959	5001	+2308
55	24 4 39.5	—1.4213	4868	+2485	54	21 0 1.4	—0.7832	4930	+2422
56	24 16 56.4	—0.0157	4831	+2548	55	21 12 15.2	—1.1810	4877	+2503
1	26 22 49.7	—1.0740	4863	+2574	56	22 0 32.9	+0.2442	4834	+2561
2	27 6 46.5	+0.6203	4896	+2543	1	24 6 42.7	—0.7842	4840	+2564
3	29 18 3.8	—0.3789	5342	+1953	2	24 14 44.3	+0.9182	4869	+2529
4	30 1 16.5	+1.2707	5413	+1828	3	27 2 54.6	—0.1403	5284	+1922
6	30 14 29.8	+0.2170	5549	+1563	6	27 23 41.9	+0.4271	5488	+1532
7	30 14 38.1	—0.1349	5550	+1560	7	27 23 50.4	+0.0725	5489	+1530
8	30 14 54.2	+0.0107	5552	+1554	8	28 0 6.8	+0.2188	5491	+1524
9	30 15 7.5	+0.4857	5555	+1549	9	28 0 20.3	+0.6968	5495	+1519
10	30 15 37.3	+0.3951	5559	+1538	10	28 0 50.6	+0.6046	5498	+1508
11	30 16 20.7	+0.5566	5565	+1522	11	28 1 34.7	+0.7662	5505	+1492
					12	28 14 50.4	—0.9954	5636	+1181
	Juli				13	28 15 47.6	+0.9210	5644	+1157
12	1 5 23.8	—1.1695	5694	+1210	14	29 17 16.7	—0.2663	5853	+0435
13	1 6 20.2	+0.7363	5701	+1184	15	30 3 40.9	+0.9835	5913	+0106
26	7 16 45.5	—1.3680	5400	—2746	16	30 12 0.2	—1.0238	5946	—0167
28	8 0 2.9	—0.1859	5362	—2796	17	30 19 28.5	+0.2267	5965	—0415
29	8 7 33.6	—0.9992	5329	—2835					
30	8 10 45.6	+1.2753	5315	—2847		Aug.			
31	8 21 30.8	—0.7112	5283	—2866	28	4 8 13.4	—0.3477	5445	—2858
33	10 18 40.4	—0.1961	5298	—2643	29	4 15 30.9	—1.1621	5412	—2895
34	13 11 58.8	+1.0306	5596	—1503	30	4 18 37.2	+1.0742	5400	—2907
35	13 13 6.2	+0.4240	5601	—1476	31	5 5 3.3	—0.8995	5368	—2924
36	13 15 18.4	+0.9398	5611	—1423	33	7 1 0.4	—0.4261	5355	—2674

Elemente der Sternbedeckungen 1913.

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Aug.			
	d h m			
34	9 17 29.6	+0.8296	5589	−1492
35	9 18 36.8	+0.2256	5594	−1465
36	9 20 48.9	+0.7430	5602	−1410
37	10 6 11.7	−0.9700	5634	−1166
38	10 9 36.4	−0.4540	5642	−1074
40	10 12 16.2	+1.1632	5650	−1002
41	11 17 53.9	−0.8296	5670	−0164
42	12 1 6.4	+1.0380	5658	+0042
43	12 2 24.0	−0.1521	5655	+0079
45	12 18 12.5	−1.1747	5604	+0518
46	13 3 18.8	+0.1811	5561	+0760
48	14 0 55.8	+1.0290	5434	+1284
49	14 2 21.2	+1.1060	5425	+1316
50	15 9 29.3	−0.6524	5205	+1910
51	16 3 36.4	−0.4176	5084	+2166
52	16 7 14.0	−0.2129	5059	+2211
53	16 17 33.0	−0.3393	4998	+2323
54	17 6 45.0	−0.7045	4931	+2438
55	17 19 0.0	−1.0832	4880	+2520
56	18 7 18.6	+0.3633	4841	+2578
1	20 13 35.1	−0.6096	4838	+2569
2	20 21 39.2	+1.1055	4861	+2532
3	23 10 33.9	+0.0436	5232	+1901
6	24 7 47.4	+0.6057	5422	+1510
7	24 7 56.0	+0.2467	5420	+1506
8	24 8 12.8	+0.3945	5422	+1500
9	24 8 26.6	+0.8780	5425	+1495
10	24 8 57.7	+0.7844	5429	+1485
11	24 9 42.7	+0.9474	5436	+1469
12	24 23 17.7	−0.8448	5556	+1158
13	25 0 16.4	+1.0935	5565	+1134
14	26 2 25.0	−0.1316	5764	+0420
15	26 13 5.3	+1.1215	5825	+0095
16	26 21 37.1	−0.9168	5861	−0175
17	27 5 16.0	+0.3385	5881	−0420
18	28 0 36.9	−0.9502	5891	−1038
20	28 2 10.6	−1.2408	5889	−1086
21	28 4 32.3	−0.4876	5886	−1160
	Aug.			
	d h m			
23	28 11 18.7	−1.2405	5871	−1366
24	29 6 52.2	+0.7567	5796	−1910
	Sept.			
33	3 9 27.2	−0.5305	5450	−2729
34	6 0 1.1	+0.6983	5652	−1508
35	6 1 6.8	+0.1014	5656	−1479
36	6 3 15.9	+0.6136	5661	−1423
37	6 12 27.0	−1.0790	5682	−1174
38	6 15 47.9	−0.5674	5688	−1081
40	6 18 24.8	+1.0354	5691	−1007
41	7 23 39.7	−0.9305	5680	−0160
42	8 6 49.2	+0.9314	5661	+0047
43	8 8 6.3	−0.2526	5655	+0084
45	8 23 51.5	−1.2645	5594	+0523
46	9 8 57.5	+0.0931	5545	+0764
48	10 6 37.7	+0.9544	5406	+1285
49	10 8 3.5	+1.0325	5398	+1316
50	11 15 21.9	−0.7045	5179	+1908
51	12 9 35.5	−0.4554	5059	+2165
52	12 13 14.3	−0.2477	5039	+2209
53	12 23 36.5	−0.3659	4981	+2324
54	13 12 51.6	−0.7220	4919	+2441
55	14 1 8.7	−1.0912	4873	+2525
56	14 13 28.4	+0.3658	4841	+2585
1	16 19 41.6	−0.5769	4851	+2581
2	17 3 45.0	+1.1435	4874	+2543
3	19 16 49.1	+0.0902	5219	+1897
6	20 14 17.6	+0.6559	5384	+1499
7	20 14 26.4	+0.2942	5385	+1497
8	20 14 43.4	+0.4431	5389	+1491
9	20 14 57.4	+0.9308	5390	+1486
10	20 15 28.9	+0.8364	5394	+1474
11	20 16 14.7	+1.0008	5400	+1458
12	21 6 3.9	−0.8108	5505	+1147
13	21 7 3.7	+1.1480	5513	+1125
14	22 9 49.4	−0.0955	5688	+0413
15	22 20 47.8	+1.1732	5737	+0091

Elemente der Sternbedeckungen 1913.

Nr.	Zeit der Konj. in AR. d	h	m	q	p'	q'
	Sept.					
16	23	5	35.2	−0.8970	5764	−0174
17	23	13	28.7	+0.3749	5782	−0415
18	24	9	28.1	−0.9386	5785	−1022
20	24	11	4.9	−1.2338	5784	−1070
21	24	13	31.4	−0.4696	5779	−1142
23	24	20	31.3	−1.2353	5766	−1344
24	25	16	42.1	+0.7847	5700	−1881
♀	27	9	27.9	+1.3273	5075	−2518
	Okt.					
34	3	8	37.7	+0.6977	5753	−1533
35	3	9	41.2	+0.1099	5757	−1504
36	3	11	46.2	+0.6147	5762	−1446
37	3	20	39.8	−1.0512	5780	−1192
38	3	23	54.5	−0.5465	5783	−1097
40	4	2	26.6	+1.0332	5785	−1022
41	5	6	53.0	−0.9006	5748	−0160
42	5	13	52.3	+0.9400	5725	+0049
43	5	15	7.8	−0.2301	5719	+0086
45	6	6	34.1	−1.2297	5638	+0529
46	6	15	31.2	+0.1157	5582	+0770
48	7	12	56.0	+0.9738	5422	+1289
49	7	14	21.1	+1.0520	5410	+1320
50	8	21	30.4	−0.6757	5169	+1903
51	9	15	43.8	−0.4298	5047	+2158
52	9	19	22.7	−0.2230	5023	+2202
53	10	5	45.9	−0.3433	4964	+2313
54	10	19	2.6	−0.7021	4904	+2431
55	11	7	21.1	−1.0755	4862	+2515
56	11	19	41.9	+0.3757	4832	+2576
1	14	1	49.6	−0.5954	4866	+2582
2	14	9	50.6	+1.1170	4893	+2546
3	16	22	31.1	+0.0264	5247	+1900
6	17	19	54.8	+0.5811	5405	+1499
7	17	20	3.5	+0.2186	5408	+1495
8	17	20	20.6	+0.3677	5408	+1490
9	17	20	34.6	+0.8560	5410	+1484
10	17	21	6.0	+0.7612	5414	+1473
11	17	21	51.7	+0.9265	5419	+1457
12	18	11	41.2	−0.8972	5516	+1143
13	18	12	41.1	+1.0675	5522	+1119
14	19	15	37.1	−0.1919	5669	+0406
15	20	2	44.0	+1.0838	5706	+0087
16	20	11	40.0	−1.0080	5724	−0176
17	20	19	42.7	+0.2747	5730	−0414
18	21	16	11.3	−1.0590	5709	−1010
21	21	20	21.4	−0.5846	5701	−1127
24	23	0	24.9	+0.6893	5599	−1846
27	25	13	22.0	+1.3247	5391	−2819
28	25	15	19.8	−0.4629	5391	−2835
29	25	22	43.3	−1.2827	5385	−2885
30	26	1	51.0	+0.9594	5384	−2901
31	26	12	16.6	−1.0160	5389	−2937
37	31	6	43.2	−0.9376	5864	−1199
38	31	9	53.1	−0.4347	5870	−1105
40	31	12	21.4	+1.1302	5875	−1027
	Nov.					
41	1	16	2.4	−0.7550	5844	−0155
42	1	22	50.4	+1.0685	5816	+0057
43	2	0	3.8	−0.0860	5810	+0095
45	2	15	5.8	−1.0622	5721	+0542
46	2	23	49.6	+0.2728	5656	+0785
48	3	20	46.0	+1.1342	5480	+1304
49	3	22	9.4	+1.2120	5468	+1335
50	5	4	49.2	−0.4906	5198	+1912
51	5	22	51.8	−0.2478	5059	+2159
52	6	2	29.2	−0.0432	5035	+2202
53	6	12	48.7	−0.1661	4972	+2310
54	7	2	2.4	−0.5306	4903	+2422
55	7	14	19.7	−0.9118	4856	+2502
56	8	2	40.0	+0.5239	4823	+2561
1	10	8	46.1	−0.5196	4867	+2567
2	10	16	45.7	+1.1755	4898	+2532
3	13	4	58.5	−0.0214	5286	+1896
6	14	2	6.5	+0.4946	5454	+1494

Elemente der Sternbedeckungen 1913.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	Nov.					Dez.			
	d h m					d h m			
7	14 2 15.1	+0.1336	5453	+1491	2	8 0 45.2	+1.4028	4882	+2506
8	14 2 31.9	+0.2815	5456	+1485	3	10 12 55.4	+0.0671	5294	+1875
9	14 2 45.7	+0.7670	5459	+1480	6	11 9 53.9	+0.5276	5479	+1476
10	14 3 16.8	+0.6722	5462	+1469	7	11 10 2.5	+0.1678	5479	+1473
11	14 4 1.9	+0.8344	5469	+1452	8	11 10 19.1	+0.3145	5482	+1468
12	14 17 40.7	−1.0020	5566	+1137	9	11 10 32.8	+0.7970	5484	+1463
13	14 18 39.8	+0.9528	5574	+1112	10	11 11 3.6	+0.7012	5488	+1451
14	15 21 17.2	−0.3397	5715	+0395	11	11 11 48.2	+0.8606	5495	+1435
15	16 8 18.2	+0.9184	5747	+0074	12	12 1 17.8	−0.9992	5605	+1120
16	16 17 10.6	−1.1811	5760	−0190	13	12 2 16.2	+0.9414	5613	+1096
17	17 1 11.2	+0.0912	5759	−0428	14	13 4 29.5	−0.4064	5773	+0375
18	17 21 39.6	−1.2677	5718	−1020	15	13 15 18.9	+0.8162	5811	+0051
21	18 1 50.8	−0.7962	5700	−1135	17	14 7 52.9	−0.0421	5825	−0456
24	19 6 11.5	+0.4633	5566	−1838	21	15 8 4.9	−0.9748	5768	−1168
27	21 20 42.9	+1.1220	5302	−2762	♂	15 10 50.4	+1.0192	5887	−1288
28	21 22 44.7	−0.6915	5299	−2777	22	15 11 33.9	+1.1682	5754	−1265
30	22 9 37.4	+0.7658	5288	−2837	24	16 11 59.0	+0.2207	5614	−1870
31	22 20 24.6	−1.2258	5294	−2869	25	18 13 5.2	+1.1598	5331	−2646
33	24 16 21.1	−0.6279	5445	−2688	27	19 2 19.6	+0.8175	5281	−2752
45	30 0 54.0	−0.8674	5789	+0565	28	19 4 22.5	−1.0040	5279	−2766
46	30 9 28.5	+0.4732	5728	+0810	30	19 15 22.7	+0.4623	5254	−2815
47	30 21 51.7	−1.1890	5622	+1137	32	21 8 52.4	+1.3427	5301	−2751
					33	21 23 17.5	−0.8794	5365	−2630
	Dez.				34	24 13 57.0	+0.7478	5762	−1473
50	2 13 29.8	−0.2058	5252	+1938	35	24 15 0.8	+0.1635	5770	−1446
51	3 7 16.1	+0.0519	5101	+2180	36	24 17 6.0	+0.6830	5781	−1389
52	3 10 50.6	+0.2579	5073	+2221	37	25 1 58.2	−0.9322	5822	−1141
53	3 21 2.7	+0.1415	5000	+2324	50	29 22 41.2	+0.0309	5292	+1971
54	4 10 8.8	−0.2174	4921	+2429	51	30 16 16.4	+0.3232	5141	+2212
55	4 22 21.0	−0.5976	4867	+2504	52	30 19 48.7	+0.5348	5113	+2253
56	5 10 37.9	+0.8287	4826	+2556	53	31 5 54.5	+0.4364	5039	+2353
1	7 16 44.6	−0.2762	4851	+2542	54	31 18 53.0	+0.0980	4954	+2455

Sternbedeckungen für Berlin 1913.

Tag	Nr.	Name	Eintritt mittl. Zeit	Q_1	Austritt mittl. Zeit	Q_2	Bemerkungen
			h m	°	h m	°	h m
Jan. 17	4	ζ Arietis . .	4 28.1	77.9	5 34.9	225.6	☉Untg. 4 16
18	13	χ Tauri . . .	10 17.2	82.9	11 28.8	255.4	☾ i. Mer. 8 22
20	17	49 Aurigae . .	11 54.1	45.8	12 36.7	330.2	☾ i. Mer. 10 27
27	33	α Virginis . .	14 9.7	96.8	15 8.9	334.6	☾ i. Mer. 16 56
Febr. 21	28	χ Leonis . .	7 7.5	123.5	8 2.7	290.2	☾ Aufg. 6 5
26	34	b Scorpii . .	17 14.9	158.1	18 7.5	243.2	☾ i. Mer. 17 20
März 13	9	23 Tauri . . .	11 0.4	43.6	11 44.0	298.0	☾ Untg. 12 45
13	11	27 Tauri . . .	12 10.0	41.8	12 49.6	300.1	
15	15	136 Tauri . . .	15 6.8	155.5	15 28.4	210.1	☾ Untg. 15 15
16	17	49 Aurigae .	5 58.9	109.6	7 12.1	257.7	☉Untg. 6 3
April 10	13	χ Tauri . . .	8 10.6	140.8	8 44.2	207.7	☉Untg. 6 47
22	36	π Scorpii . .	15 37.6	111.8	16 49.0	276.2	☾ Untg. 17 21
Mai 17	33	α Virginis .	5 3.6	55.6	5 26.8	8.7	☾ Aufg. 4 33
Juni 16	36	π Scorpii . .	8 23.8	154.8	9 17.2	249.7	☉Untg. 8 22
18	42	W Sagittarii .	12 2.0	141.1	12 50.8	217.5	☾ i. Mer. 12 13
20	48	ω Sagittarii .	9 44.9	88.9	10 55.5	254.2	☾ Aufg. 10 34
20	49	A Sagittarii .	11 27.4	92.0	12 43.0	241.8	☾ i. Mer. 14 2
Juli 28	13	χ Tauri . . .	14 14.2	101.1	15 4.6	221.0	☉Aufg. 16 16
Aug. 24	11	27 Tauri . . .	8 29.5	60.9	9 16.7	265.4	☾ Aufg. 9 10
Sept. 8	42	W Sagittarii .	6 9.3	77.5	7 28.1	281.4	☉Untg. 6 32
10	49	A Sagittarii .	7 7.7	79.0	8 28.9	247.2	☾ i. Mer. 8 38
14	56	φ Aquarii . .	14 15.0	3.3	15 0.0	284.4	☾ Untg. 17 12
20	6	17 Tauri . . .	13 4.0	77.9	14 16.6	233.0	
20	7	19 Tauri . . .	13 58.2	356.6	14 25.2	315.1	☾ i. Mer. 15 45
20	8	20 Tauri . . .	13 49.0	45.3	15 1.0	267.1	
Okt. 14	2	ε Piscium .	8 23.0	93.6	9 18.4	193.9	☾ i. Mer. 11 30
Nov. 16	15	136 Tauri . . .	6 51.9	115.3	7 36.5	229.8	☾ Aufg. 5 4
Dez. 11	6	17 Tauri . . .	9 3.3	72.3	10 20.7	243.5	
11	8	20 Tauri . . .	9 53.5	36.4	10 59.5	282.6	☾ i. Mer. 10 21
11	10	η Tauri . . .	10 50.9	135.3	11 25.7	187.5	
13	15	136 Tauri . . .	16 9.9	175.4	16 22.7	198.0	☾ i. Mer. 12 12
16	24	γ Cancri . .	10 35.7	54.1	11 16.3	337.2	☾ i. Mer. 15 5
19	30	τ Leonis . .	13 57.1	110.8	15 1.3	316.4	☾ i. Mer. 17 35
31	53	ι Aquarii . .	6 38.4	19.8	7 31.4	274.3	☾ Untg. 8 13

TRABANT I.

Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$
	h m			h m			h m	
Jan. 1	1 27.5	−0.0386	März 21	17 51.0	−0.0317	Juni 9	8 32.9	−0.0286
2	19 57.8	384	23	12 20.1	316	11	2 59.0	286
4	14 28.3	383	25	6 49.0	315	12	21 25.2	286
6	8 58.6	382	27	1 17.9	313	14	15 51.3	286
8	3 29.0	380	28	19 46.7	311	16	10 17.5	286
9	21 59.3	379	30	14 15.5	310	18	4 43.4	286
11	16 29.7	377	April 1	8 44.0	309	19	23 9.6	286
13	10 59.9	376	3	3 12.7	308	21	17 35.6	286
15	5 30.2	375	4	21 41.2	306	23	12 1.6	286
17	0 0.5	373	6	16 9.8	305	25	6 27.5	286
18	18 30.8	371	8	10 38.2	304	27	0 53.5	286
20	13 1.0	369	10	5 6.7	304	28	19 19.3	286
22	7 31.3	368	11	23 35.0	303	30	13 45.3	287
24	2 1.5	366	13	18 3.2	302	Juli 2	8 11.2	287
25	20 31.6	365	15	12 31.4	301	4	2 37.3	287
27	15 1.7	363	17	6 59.6	300	5	21 3.1	288
29	9 32.0	361	19	1 27.6	299	7	15 29.2	288
31	4 2.0	360	20	19 55.6	298	9	9 55.1	288
Febr. 1	22 32.1	358	22	14 23.4	297	11	4 21.1	288
3	17 2.1	356	24	8 51.3	297	12	22 47.0	288
5	11 32.2	355	26	3 19.1	296	14	17 13.0	288
7	6 2.2	353	27	21 46.8	295	16	11 39.1	289
9	0 32.2	351	29	16 14.4	294	18	6 5.2	289
10	19 2.1	350	Mai 1	10 42.1	293	20	0 31.2	289
12	13 32.1	348	3	5 9.6	292	21	18 57.4	289
14	8 1.9	347	4	23 37.2	291	23	13 23.5	289
16	2 31.7	345	6	18 4.5	290	25	7 49.7	288
17	21 1.5	344	8	12 31.8	290	27	2 15.8	288
19	15 31.4	342	10	6 59.1	289	28	20 42.2	288
21	10 1.0	341	12	1 26.4	289	30	15 8.5	288
23	4 30.8	340	13	19 53.5	288	Aug. 1	9 34.9	288
24	23 0.4	338	15	14 20.5	288	3	4 1.4	288
26	17 30.1	337	17	8 47.5	288	4	22 27.9	288
28	11 59.6	336	19	3 14.5	288	6	16 54.5	288
März 2	6 29.2	334	20	21 41.2	287	8	11 21.1	288
4	0 58.7	332	22	16 8.0	287	10	5 47.7	288
5	19 28.2	331	24	10 34.8	287	12	0 14.5	288
7	13 57.6	329	26	5 1.4	287	13	18 41.3	287
9	8 26.9	328	27	23 28.0	287	15	13 8.1	287
11	2 56.1	327	29	17 54.6	287	17	7 35.0	287
12	21 25.4	325	31	12 21.1	287	19	2 2.0	286
14	15 54.6	324	Juni 2	6 47.5	287	20	20 29.1	286
16	10 23.9	323	4	1 13.9	287	22	14 56.3	286
18	4 52.9	321	5	19 40.3	286	24	9 23.5	286
19	23 22.0	319	7	14 6.6	286	26	3 50.8	286

TRABANT I. (Fortsetzung.)

Geoz. Obere Konj. Mittlere Zeit	h	m	b/a	Geoz. Obere Konj. Mittlere Zeit	h	m	b/a	Geoz. Obere Konj. Mittlere Zeit	h	m	b/a
Aug. 27	22	18.1	−0.0286	Okt. 9	9	35.9	−0.0269	Nov. 20	21	26.2	−0.0237
29	16	45.6	285	11	4	5.0	268	22	15	56.3	235
31	11	13.2	285	12	22	34.0	267	24	10	26.3	234
Sept. 2	5	40.8	285	14	17	3.2	266	26	4	56.5	232
4	0	8.4	284	16	11	32.5	266	27	23	26.7	230
5	18	36.2	284	18	6	1.7	265	29	17	56.9	228
7	13	4.0	283	20	0	31.0	263	Dez. 1	12	27.0	226
9	7	32.0	282	21	19	0.4	262	3	6	57.3	224
11	1	59.8	282	23	13	29.9	261	5	1	27.6	222
12	20	27.9	281	25	7	59.3	260	6	19	57.9	220
14	14	55.9	280	27	2	28.8	259	8	14	28.2	218
16	9	24.0	280	28	20	58.4	257	10	8	58.4	216
18	3	52.1	280	30	15	28.0	256	12	3	28.8	214
19	22	20.4	279	Nov. 1	9	57.6	255	13	21	59.0	211
21	16	48.7	278	3	4	27.3	254	15	16	29.4	209
23	11	17.2	278	4	22	57.0	253	17	10	59.9	208
25	5	45.8	277	6	17	26.8	251	19	5	30.3	206
27	0	14.3	276	8	11	56.6	250	21	0	0.6	203
28	18	42.9	275	10	6	26.4	248	22	18	31.1	200
30	13	11.6	274	12	0	56.4	246	24	13	1.5	198
Okt. 2	7	40.4	273	13	19	26.3	244	26	7	32.0	196
4	2	9.1	272	15	13	56.2	242	28	2	2.5	194
5	20	38.0	271	17	8	26.1	241	29	20	32.9	191
7	15	7.0	270	19	2	56.2	239	31	15	3.3	188

TRABANT II.

Geoz. Obere Konj. Mittlere Zeit	h	m	b/a	Geoz. Obere Konj. Mittlere Zeit	h	m	b/a	Geoz. Obere Konj. Mittlere Zeit	h	m	b/a
Jan. 1	16	33.1	−0.0385	März 13	20	6.6	−0.0324	Mai 23	21	8.9	−0.0287
5	5	57.8	383	17	9	26.3	321	27	10	18.7	287
8	19	22.2	380	20	22	45.5	318	30	23	28.1	287
12	8	46.6	377	24	12	4.2	315	Juni 3	12	37.2	287
15	22	10.7	374	28	1	22.6	312	7	1	45.8	286
19	11	34.8	371	31	14	40.4	309	10	14	54.2	286
23	0	58.6	367	April 4	3	57.9	307	14	4	2.0	286
26	14	22.3	364	7	17	14.8	305	17	17	9.9	286
30	3	45.8	361	11	6	31.4	303	21	6	17.2	286
Febr. 2	17	9.1	358	14	19	47.3	301	24	19	24.6	286
6	6	32.1	354	18	9	2.7	300	28	8	31.6	286
9	19	54.8	351	21	22	17.7	298	Juli 1	21	39.0	287
13	9	17.4	348	25	11	32.1	296	5	10	46.1	287
16	22	39.7	344	29	0	45.9	294	8	23	53.6	288
20	12	1.6	341	Mai 2	13	59.4	292	12	13	0.8	288
24	1	23.3	338	6	3	12.4	291	16	2	8.7	289
27	14	44.8	336	9	16	24.7	290	19	15	16.2	289
März 3	4	5.8	333	13	5	36.5	289	23	4	24.6	289
6	17	26.4	330	16	18	47.8	288	26	17	32.6	288
10	6	46.8	327	20	7	58.6	288	30	6	41.8	288

TRABANT II. (Fortsetzung.)

Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a
Aug. 2	19h 50.8m	−0.0288	Sept. 25	2h 17.7m	−0.0277	Nov. 17	10h 40.8m	−0.0241
6	9 1.0	288	28	15 35.5	275	21	0 5.6	237
9	22 10.9	288	Okt. 2	4 55.0	273	24	13 29.6	233
13	11 22.0	288	5	18 13.9	271	28	2 55.0	230
17	0 33.0	287	9	7 34.4	269	Dez. 1	16 19.4	226
20	13 45.3	286	12	20 54.4	267	5	5 44.9	222
24	2 57.4	286	16	10 16.0	266	8	19 9.7	218
27	16 11.1	286	19	23 36.8	263	12	8 35.6	214
31	5 24.4	285	23	12 59.1	261	15	22 0.7	210
Sept. 3	18 39.2	284	27	2 20.7	259	19	11 26.8	205
7	7 53.8	283	30	15 43.8	256	23	0 52.1	200
10	21 9.9	282	Nov. 3	5 6.2	254	26	14 18.3	195
14	10 25.5	281	6	18 29.9	251	30	3 43.9	191
17	23 42.7	280	10	7 53.0	248			
21	12 59.4	278	13	21 17.3	244			

TRABANT III.

Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a
Jan. 4	17h 35.5m	−0.0383	Mai 6	16h 44.0m	−0.0291	Sept. 5	3h 5.5m	−0.0284
11	22 3.7	377	13	20 22.8	288	12	6 52.3	281
19	2 31.1	371	20	23 57.3	287	19	10 42.7	279
26	6 57.2	365	28	3 27.1	287	26	14 37.7	276
Febr. 2	11 22.2	358	Juni 4	6 53.6	287	Okt. 3	18 37.3	272
9	15 45.9	351	11	10 16.2	286	10	22 40.8	268
16	20 7.8	344	18	13 35.6	286	18	2 48.8	265
24	0 27.7	338	25	16 52.7	286	25	6 59.9	261
März 3	4 44.9	333	Juli 2	20 8.8	287	Nov. 1	11 14.9	256
10	8 59.1	327	9	23 25.5	288	8	15 32.0	250
17	13 10.1	321	17	2 42.5	289	15	19 51.5	242
24	17 18.1	315	24	6 1.4	288	23	0 13.1	235
31	21 23.0	309	31	9 22.2	288	30	4 37.2	228
April 8	1 23.8	305	Aug. 7	12 46.5	288	Dez. 7	9 3.3	220
15	5 20.9	301	14	16 14.0	287	14	13 30.6	211
22	9 13.3	298	21	19 46.1	286	21	17 59.9	202
29	13 0.7	294	28	23 23.5	286	28	22 29.1	193

TRABANT IV.

Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a
Jan. 10	4h 27.4m	−0.0333	Mai 24	9h 40.5m	−0.0255	Sept. 17	19h 16.3m	−0.0240
27	1 2.3	321	Juni 10	0 39.9	253	Okt. 4	13 6.9	233
Febr. 12	21 20.3	309	26	15 1.4	252	21	7 48.7	225
März 1	17 12.9	297	Juli 13	5 9.1	251	Nov. 7	3 13.9	215
18	12 31.9	285	29	19 29.6	250	23	23 13.1	202
April 4	7 9.4	275	Aug. 15	10 29.8	248	Dez. 10	19 37.7	188
21	0 56.4	267	Sept. 1	2 23.6	245	27	16 26.5	171
Mai 7	17 47.7	260						

TRABANT I.

Eintritte				Eintritte				Eintritte				Austritte			
	h	m	s		h	m	s		h	m	s		h	m	s
Jan. 15	3	55	52	März 23	9	57	49	Mai 29	15	58	25	Aug. 3	5	49	11
16	22	24	21	25	4	26	10	31	10	26	52	5	0	17	55
18	16	52	55	26	22	54	39	Juni 2	4	55	25	6	18	46	35
20	11	21	22	28	17	23	2	3	23	23	51	8	13	15	17
22	5	49	57	30	11	51	31	5	17	52	23	10	7	43	58
24	0	18	25	April 1	6	19	52	7	12	20	51	12	2	12	43
25	18	46	58	3	0	48	21	9	6	49	25	13	20	41	24
27	13	15	25	4	19	16	44	11	1	17	52	15	15	10	7
29	7	43	58	6	13	45	13	12	19	46	25	17	9	38	48
31	2	12	26	8	8	13	35	14	14	14	54	19	4	7	34
Febr. 1	20	40	59	10	2	42	3	16	8	43	29	20	22	36	17
3	15	9	24	11	21	10	26	18	3	11	58	22	17	5	0
5	9	37	57	13	15	38	55	19	21	40	32	24	11	33	43
7	4	6	24	15	10	7	16	21	16	9	3	26	6	2	29
8	22	34	56	17	4	35	44	23	10	37	39	28	0	31	13
10	17	3	21	18	23	4	7	25	5	6	9	29	18	59	57
12	11	31	53	20	17	32	36	26	23	34	44	31	13	28	40
14	6	0	19	22	12	0	58	28	18	3	17	Sept. 2	7	57	27
16	0	28	50	24	6	29	26	30	12	31	54	4	2	26	11
17	18	57	14	26	0	57	50	Juli 2	7	0	26	5	20	54	56
19	13	25	46	27	19	26	19					7	15	23	40
21	7	54	11	29	13	54	41					9	9	52	27
23	2	22	42	Mai 1	8	23	10	Austritte				11	4	21	12
24	20	51	5	3	2	51	33	Juli 7	16	39	33	12	22	49	57
26	15	19	36	4	21	20	3	9	11	8	7	14	17	18	42
28	9	48	1	6	15	48	26	11	5	36	45	16	11	47	29
März 2	4	16	32	8	10	16	55	13	0	5	20	18	6	16	14
3	22	44	54	10	4	45	19	14	18	34	0	20	0	45	0
5	17	13	25	11	23	13	50	16	13	2	36	21	19	13	44
7	11	41	49	13	17	42	14	18	7	31	15	23	13	42	32
9	6	10	19	15	12	10	42	20	1	59	52	25	8	11	18
11	0	38	41	17	6	39	7	21	20	28	33	27	2	40	3
12	19	7	11	19	1	7	38	23	14	57	10	28	21	8	48
14	13	35	35	20	19	36	2	25	9	25	51	30	15	37	36
16	8	4	5	22	14	4	32	27	3	54	29	Okt. 2	10	6	22
18	2	32	26	24	8	32	58	28	22	23	12	4	4	35	7
19	21	0	56	26	3	1	30	30	16	51	50	5	23	3	52
21	15	29	19	27	21	29	55	Aug. 1	11	20	31	7	17	32	39

TRABANT I. (Fortsetzung.)

Austritte				Austritte				Austritte				Austritte			
	h	m	s		h	m	s		h	m	s		h	m	s
Okt. 9	12	1	26	Okt. 28	23	17	46	Nov. 17	10	33	56	Dez. 6	21	49	49
11	6	30	11	30	17	46	32	19	5	2	40	8	16	18	31
13	0	58	56	Nov. 1	12	15	16	20	23	31	25	10	10	47	12
14	19	27	42	3	6	44	1	22	18	0	7	12	5	15	56
16	13	56	29	5	1	12	46	24	12	28	50	13	23	44	36
18	8	25	14	6	19	41	32	26	6	57	33	15	18	13	18
20	2	53	59	8	14	10	15	28	1	26	18	17	12	41	58
21	21	22	45	10	8	38	59	29	19	54	59	19	7	10	41
23	15	51	31	12	3	7	44	Dez. 1	14	23	42	21	1	39	20
25	10	20	16	13	21	36	29	3	8	52	24	22	20	8	1
27	4	49	1	15	16	5	12	5	3	21	8	24	14	36	40

TRABANT II.

Eintritte				Eintritte				Austritte				Austritte			
	h	m	s		h	m	s		h	m	s		h	m	s
Jan. 15	19	52	34	April 14	15	50	31	Juli 5	12	9	18	Okt. 2	8	58	15
19	9	9	38	18	5	7	11	9	1	27	35	5	22	16	54
22	22	26	38	21	18	23	51	12	14	45	27	9	11	36	41
26	11	43	36	25	7	40	34	16	4	3	54	13	0	55	20
30	1	0	31	28	20	57	18	19	17	21	53	16	14	15	7
Febr. 2	14	17	25	Mai 2	10	14	4	23	6	40	31	20	3	33	46
6	3	34	15	5	23	30	53	26	19	58	35	23	16	53	32
9	16	51	5	9	12	47	43	30	9	17	23	27	6	12	10
13	6	7	50	13	2	4	38	Aug. 2	22	35	33	30	19	31	54
16	19	24	36	16	15	21	32	6	11	54	31	Nov. 3	8	50	31
20	8	41	18	20	4	38	33	10	1	12	46	6	22	10	13
23	21	58	0	23	17	55	33	13	14	31	53	10	11	28	47
27	11	14	39	27	7	12	41	17	3	50	13	14	0	48	25
März 3	0	31	18	30	20	29	46	20	17	9	28	17	14	6	58
6	13	47	56	Juni 3	9	47	3	24	6	27	53	21	3	26	31
10	3	4	33	6	23	4	13	27	19	47	16	24	16	45	1
13	16	21	8	10	12	21	39	31	9	5	44	28	6	4	29
17	5	37	44	14	1	38	56	Sept. 3	22	25	13	Dez. 1	19	22	55
20	18	54	19	17	14	56	32	7	11	43	45	5	8	42	16
24	8	10	54	21	4	13	54	11	1	3	20	8	22	0	39
27	21	27	30	24	17	31	40	14	14	21	54	12	11	19	54
31	10	44	4	28	6	49	9	18	3	41	33	16	0	38	13
April 4	0	0	40	Juli 1	20	7	6	21	17	0	10	19	13	57	21
7	13	17	16					25	6	19	52	23	3	15	36
11	2	33	54					28	19	38	30				

TRABANT III.

Datum	Mitte der Verfinsterung	Halbe Dauer	Datum	Mitte der Verfinsterung	Halbe Dauer
	h m s	h m s		h m s	h m s
Jan. 19	0 20 29	1 19 40	Juli 9	23 54 52	1 33 18
26	4 19 6	1 20 18	17	3 54 41	1 33 47
Febr. 2	8 17 45	1 20 55	24	7 55 4	1 34 16
9	12 16 53	1 21 33	31	11 54 56	1 34 44
16	16 15 47	1 22 10	Aug. 7	15 54 47	1 35 12
23	20 15 8	1 22 47	14	19 54 38	1 35 39
März 3	0 13 50	1 23 23	21	23 54 42	1 36 5
10	4 12 24	1 24 0	29	3 55 25	1 36 31
17	8 10 47	1 24 36	Sept. 5	7 55 54	1 36 57
24	12 9 14	1 25 11	12	11 56 50	1 37 23
31	16 8 13	1 25 46	19	15 57 12	1 37 48
April 7	20 6 59	1 26 21	26	19 57 28	1 38 12
15	0 6 14	1 26 55	Okt. 3	23 57 41	1 38 36
22	4 4 53	1 27 29	11	3 58 3	1 38 59
29	8 3 26	1 28 3	18	7 59 0	1 39 22
Mai 6	12 1 53	1 28 36	25	11 59 37	1 39 44
13	16 0 30	1 29 9	Nov. 1	16 0 36	1 40 6
20	19 59 44	1 29 42	8	20 0 57	1 40 28
27	23 58 48	1 30 14	16	0 1 9	1 40 49
Juni 4	3 58 24	1 30 46	23	4 1 17	1 41 9
11	7 57 28	1 31 17	30	8 1 31	1 41 29
18	11 56 32	1 31 48	Dez. 7	12 2 19	1 41 48
25	15 55 35	1 32 18	14	16 2 42	1 42 7
Juli 2	19 54 53	1 32 48	21	20 3 24	1 42 26

TRABANT IV.

Datum	Mitte der Verfinsterung	Halbe Dauer	Datum	Mitte der Verfinsterung	Halbe Dauer
	h m s	h m s		h m s	h m s
März 18	0 49 54	0 27 15	Aug. 15	19 14 57	1 35 9
April 3	18 50 31	0 41 10	Sept. 1	13 21 5	1 39 34
20	12 51 15	0 51 23	18	7 27 47	1 43 40
Mai 7	6 52 50	0 59 51	Okt. 5	1 35 30	1 47 31
24	0 54 24	1 7 14	21	19 42 42	1 51 7
Juni 9	18 56 38	1 13 51	Nov. 7	13 49 57	1 54 30
26	13 0 12	1 19 51	24	7 57 53	1 57 38
Juli 13	7 4 1	1 25 21	Dez. 11	2 4 59	2 0 33
30	1 8 47	1 30 26			

0^h		α	β	p_a	a	b	U'	B'	P'
		"	"	°	"	"	° '	° '	° '
Jan.	0	20.05	18.32	+0.03	45.14	−18.45	252 1.2	−24 57.5	+8 21.7
	4	19.93	18.22	0.03	44.89	18.34	252 10.9	24 59.0	8 17.4
	8	19.81	18.11	0.03	44.63	18.22	252 20.5	25 0.5	8 13.0
	12	19.69	18.00	0.04	44.35	18.10	252 30.1	25 2.0	8 8.7
	16	19.56	17.88	0.04	44.06	17.98	252 39.7	25 3.5	8 4.3
	20	19.43	17.76	+0.04	43.77	−17.86	252 49.3	−25 5.0	+7 59.9
	24	19.29	17.64	0.05	43.46	17.74	252 59.0	25 6.5	7 55.5
	28	19.16	17.52	0.05	43.15	17.62	253 8.6	25 8.0	7 51.1
Febr.	1	19.02	17.39	0.06	42.84	17.51	253 18.3	25 9.4	7 46.7
	5	18.88	17.26	0.06	42.53	17.40	253 27.9	25 10.9	7 42.3
	9	18.74	17.13	+0.06	42.21	−17.29	253 37.6	−25 12.3	+7 37.9
	13	18.60	17.00	0.06	41.90	17.19	253 47.3	25 13.7	7 33.5
	17	18.46	16.88	0.06	41.59	17.09	253 57.0	25 15.1	7 29.1
	21	18.33	16.76	0.05	41.29	17.00	254 6.7	25 16.5	7 24.7
	25	18.20	16.64	0.05	40.99	16.91	254 16.4	25 17.9	7 20.2
März	1	18.07	16.52	+0.05	40.70	−16.83	254 26.1	−25 19.3	+7 15.8
	5	17.94	16.41	0.05	40.42	16.75	254 35.8	25 20.7	7 11.3
	9	17.82	16.30	0.05	40.14	16.68	254 45.5	25 22.1	7 6.9
	13	17.71	16.20	0.04	39.88	16.61	254 55.2	25 23.4	7 2.4
	17	17.59	16.10	0.04	39.63	16.55	255 4.9	25 24.8	6 58.0
	21	17.49	16.00	+0.04	39.38	−16.49	255 14.6	−25 26.1	+6 53.5
	25	17.38	15.91	+0.03	39.16	−16.44	255 24.3	−25 27.4	+6 49.0
Okt.	7	19.46	17.85	−0.05	43.82	−19.48	263 25.8	−26 18.7	+3 5.4
	11	19.59	17.98	0.05	44.13	19.61	263 35.7	26 19.5	3 0.8
	15	19.72	18.10	0.04	44.42	19.74	263 45.6	26 20.2	2 56.1
	19	19.85	18.21	0.04	44.71	19.86	263 55.5	26 21.0	2 51.5
	23	19.97	18.32	0.03	44.98	19.97	264 5.5	26 21.7	2 46.8
	27	20.08	18.42	−0.03	45.24	−20.08	264 15.4	−26 22.4	+2 42.2
	31	20.19	18.52	0.03	45.48	20.18	264 25.3	26 23.1	2 37.5
Nov.	4	20.29	18.61	0.02	45.71	20.27	264 35.2	26 23.8	2 32.8
	8	20.38	18.70	0.02	45.91	20.36	264 45.2	26 24.5	2 28.1
	12	20.46	18.78	0.01	46.09	20.43	264 55.1	26 25.2	2 23.5
	16	20.53	18.84	−0.01	46.25	−20.50	265 5.1	−26 25.9	+2 18.8
	20	20.59	18.89	−0.01	46.38	20.55	265 15.0	26 26.6	2 14.1
	24	20.64	18.93	0.00	46.49	20.60	265 25.0	26 27.2	2 9.4
	28	20.67	18.96	0.00	46.57	20.63	265 34.9	26 27.8	2 4.8
Dez.	2	20.69	18.98	0.00	46.61	20.65	265 44.9	26 28.4	2 0.1
	6	20.70	18.99	0.00	46.63	−20.66	265 54.8	−26 29.0	+1 55.4
	10	20.70	18.99	0.00	46.62	20.66	266 4.8	26 29.6	1 50.7
	14	20.68	18.98	0.00	46.59	20.64	266 14.7	26 30.2	1 46.1
	18	20.65	18.95	0.00	46.53	20.61	266 24.7	26 30.8	1 41.4
	22	20.61	18.90	+0.01	46.43	20.56	266 34.6	26 31.4	1 36.7
	26	20.56	18.85	+0.01	46.30	−20.50	266 44.6	−26 31.9	+1 32.0
	30	20.49	18.79	0.01	46.15	20.43	266 54.6	26 32.4	1 27.3
	34	20.41	18.72	+0.02	45.98	−20.35	267 4.6	−26 32.9	+1 22.6

0^h	U	B	P
	° ′	° ′	° ′
Jan. 0	290 4.9	−24 6.9	−2 28.2
2	289 58.5	24 6.3	2 27.5
4	289 52.6	24 5.8	2 26.8
6	289 47.1	24 5.4	2 26.1
8	289 41.9	24 5.0	2 25.5
10	289 37.2	−24 4.7	−2 24.9
12	289 33.0	24 4.5	2 24.4
14	289 29.2	24 4.4	2 24.0
16	289 25.9	24 4.4	2 23.6
18	289 23.0	24 4.5	2 23.3
20	289 20.6	−24 4.6	−2 23.0
22	289 18.7	24 4.9	2 22.8
24	289 17.3	24 5.2	2 22.6
26	289 16.4	24 5.6	2 22.5
28	289 16.0	24 6.1	2 22.4
30	289 16.1	−24 6.7	−2 22.4
Febr. 1	289 16.6	24 7.4	2 22.5
3	289 17.6	24 8.2	2 22.6
5	289 19.2	24 9.0	2 22.8
7	289 21.2	24 10.0	2 23.1
9	289 23.7	−24 11.0	−2 23.4
11	289 26.7	24 12.1	2 23.8
13	289 30.2	24 13.3	2 24.2
15	289 34.1	24 14.6	2 24.7
17	289 38.5	24 15.9	2 25.2
19	289 43.4	−24 17.3	−2 25.8
21	289 48.7	24 18.8	2 26.4
23	289 54.5	24 20.4	2 27.1
25	290 0.7	24 22.0	2 27.9
27	290 7.3	24 23.7	2 28.7
März 1	290 14.4	−24 25.4	−2 29.6
3	290 21.9	24 27.2	2 30.5
5	290 29.9	24 29.0	2 31.5
7	290 38.3	24 30.9	2 32.5
9	290 47.1	24 32.8	2 33.6
11	290 56.2	−24 34.7	−2 34.7
13	291 5.8	24 36.7	2 35.9
15	291 15.7	24 38.7	2 37.1
17	291 26.0	24 40.7	2 38.3
19	291 36.6	24 42.8	2 39.6
21	291 47.6	−24 44.9	−2 40.9
23	291 58.9	24 47.0	2 42.3
25	292 10.6	−24 49.2	−2 43.7

0^h	U	B	P
	° ′	° ′	° ′
Okt. 7	312 18.0	−26 22.9	−4 57.2
9	312 16.1	26 22.7	4 57.0
11	312 13.8	26 22.5	4 56.7
13	312 11.0	26 22.3	4 56.4
15	312 7.7	26 22.1	4 56.1
17	312 3.9	−26 21.9	−4 55.7
19	311 59.6	26 21.7	4 55.3
21	311 54.9	26 21.5	4 54.8
23	311 49.7	26 21.4	4 54.3
25	311 44.1	26 21.2	4 53.7
27	311 38.0	−26 21.0	−4 53.1
29	311 31.5	26 20.8	4 52.5
31	311 24.7	26 20.7	4 51.8
Nov. 2	311 17.4	26 20.5	4 51.1
4	311 9.8	26 20.3	4 50.3
6	311 1.8	−26 20.1	−4 49.5
8	310 53.4	26 20.0	4 48.7
10	310 44.7	26 19.8	4 47.8
12	310 35.7	26 19.7	4 46.9
14	310 26.4	26 19.5	4 46.0
16	310 16.8	−26 19.4	−4 45.0
18	310 7.0	26 19.2	4 44.0
20	309 56.9	26 19.1	4 43.0
22	309 46.6	26 18.9	4 42.0
24	309 36.2	26 18.8	4 40.9
26	309 25.6	−26 18.6	−4 39.8
28	309 14.8	26 18.5	4 38.7
30	309 3.9	26 18.3	4 37.6
Dez. 2	308 53.0	26 18.2	4 36.5
4	308 42.0	26 18.0	4 35.4
6	308 31.0	−26 17.9	−4 34.2
8	308 19.9	26 17.7	4 33.1
10	308 8.9	26 17.6	4 31.9
12	307 57.9	26 17.4	4 30.7
14	307 47.0	26 17.3	4 29.6
16	307 36.2	−26 17.2	−4 28.5
18	307 25.4	26 17.1	4 27.4
20	307 14.8	26 17.0	4 26.3
22	307 4.4	26 16.9	4 25.2
24	306 54.2	26 16.8	4 24.1
26	306 44.1	−26 16.7	−4 23.1
28	306 34.2	26 16.6	4 22.1
30	306 24.7	26 16.5	4 21.1
32	306 15.5	−26 16.4	−4 20.1

MIMAS.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	26° 49.'8	9.°26	1.48799	−12."57
2	70 49.8	51.26	1.48681	12.53
4	114 49.8	93.26	1.48560	12.49
6	158 49.8	135.26	1.48434	12.45
8	202 49.7	177.26	1.48304	−12.41
10	246 49.7	219.26	1.48170	12.37
12	290 49.7	261.26	1.48033	12.33
14	334 49.6	303.26	1.47893	12.29
16	18 49.6	345.25	1.47750	−12.25
18	62 49.6	27.25	1.47604	12.21
20	106 49.5	69.25	1.47456	12.17
22	150 49.5	111.25	1.47306	12.13
24	194 49.4	153.25	1.47153	−12.09
26	238 49.4	195.25	1.46999	12.05
28	282 49.3	237.25	1.46843	12.01
30	326 49.3	279.25	1.46686	11.97
Febr. 1	10 49.2	321.25	1.46527	−11.93
3	54 49.2	3.25	1.46368	11.89
5	98 49.1	45.25	1.46208	11.85
7	142 49.1	87.25	1.46047	11.81
9	186 49.0	129.25	1.45886	−11.78
11	230 49.0	171.25	1.45725	11.74
13	274 48.9	213.25	1.45564	11.71
15	318 48.9	255.25	1.45403	11.68
17	2 48.8	297.24	1.45243	−11.65
19	46 48.8	339.24	1.45083	11.61
21	90 48.7	21.24	1.44925	11.58
23	134 48.7	63.24	1.44767	11.55
25	178 48.6	105.24	1.44610	−11.52
27	222 48.6	147.24	1.44455	11.49
März 1	266 48.5	189.24	1.44301	11.46
3	310 48.4	231.24	1.44149	11.43
5	354 48.4	273.24	1.43999	−11.41
7	38 48.3	315.24	1.43850	11.38
9	82 48.2	357.24	1.43704	11.36
11	126 48.2	39.24	1.43560	11.34
13	170 48.1	81.24	1.43418	−11.32
15	214 48.0	123.24	1.43278	11.30
17	258 48.0	165.24	1.43141	11.28
19	302 47.9	207.24	1.43007	11.26
21	346 47.8	249.23	1.42875	−11.24
23	30 47.8	291.23	1.42747	11.22
25	74 47.7	333.23	1.42621	−11.20

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Okt. 7	66° 39.'3	129.°08	1.47516	−13."27
9	110 39.2	171.08	1.47666	13.32
11	154 39.1	213.08	1.47814	13.37
13	198 39.0	255.08	1.47960	13.41
15	242 38.8	297.08	1.48103	−13.45
17	286 38.7	339.07	1.48243	13.49
19	330 38.6	21.07	1.48380	13.53
21	14 38.5	63.07	1.48514	13.57
23	58 38.4	105.07	1.48644	−13.61
25	102 38.3	147.07	1.48771	13.65
27	146 38.2	189.06	1.48893	13.69
29	190 38.1	231.06	1.49011	13.72
31	234 37.9	273.06	1.49125	−13.75
Nov. 2	278 37.8	315.06	1.49234	13.78
4	322 37.7	357.05	1.49339	13.81
6	6 37.6	39.05	1.49438	13.84
8	50 37.5	81.05	1.49532	−13.87
10	94 37.4	123.05	1.49620	13.90
12	138 37.2	165.05	1.49703	13.93
14	182 37.1	207.04	1.49781	13.95
16	226 37.0	249.04	1.49852	−13.97
18	270 36.8	291.04	1.49917	13.99
20	314 36.7	333.04	1.49977	14.01
22	358 36.6	15.03	1.50030	14.03
24	42 36.5	57.03	1.50076	−14.04
26	86 36.4	99.03	1.50116	14.05
28	130 36.2	141.03	1.50149	14.06
30	174 36.1	183.02	1.50176	14.07
Dez. 2	218 35.9	225.02	1.50195	−14.07
4	262 35.8	267.02	1.50208	14.07
6	306 35.7	309.02	1.50214	14.07
8	350 35.6	351.01	1.50213	14.07
10	34 35.4	33.01	1.50206	−14.07
12	78 35.3	75.01	1.50191	14.07
14	122 35.1	117.01	1.50170	14.06
16	166 35.0	159.01	1.50142	14.05
18	210 34.8	201.00	1.50107	−14.04
20	254 34.7	243.00	1.50066	14.03
22	298 34.6	285.00	1.50018	14.01
24	342 34.4	327.00	1.49963	13.99
26	26 34.3	9.00	1.49902	−13.97
28	70 34.2	51.00	1.49835	13.95
30	114 34.0	93.00	1.49762	13.93
32	158 33.9	135.00	1.49683	−13.90

MIMAS.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+0° 0.0	9.99167	360°	90°	+2° 10′.6	0.00016	270°
2	0 4.7	9.99167	358	92	2 10.4	0.00044	268
4	0 9.3	9.99169	356	94	2 10.1	0.00073	266
6	0 14.0	9.99172	354	96	2 9.6	0.00101	264
8	0 18.6	9.99175	352	98	2 8.9	0.00130	262
10	+0 23.2	9.99180	350	100	+2 8.1	0.00158	260
12	0 27.8	9.99186	348	102	2 7.1	0.00186	258
14	0 32.3	9.99193	346	104	2 6.0	0.00214	256
16	0 36.8	9.99201	344	106	2 4.7	0.00241	254
18	0 41.3	9.99210	342	108	2 3.3	0.00268	252
20	+0 45.7	9.99220	340	110	+2 1.7	0.00295	250
22	0 50.0	9.99230	338	112	2 0.0	0.00321	248
24	0 54.3	9.99242	336	114	1 58.2	0.00347	246
26	0 58.5	9.99255	334	116	1 56.2	0.00373	244
28	1 2.6	9.99269	332	118	1 54.0	0.00398	242
30	+1 6.7	9.99284	330	120	+1 51.8	0.00422	240
32	1 10.6	9.99299	328	122	1 49.4	0.00446	238
34	1 14.5	9.99316	326	124	1 46.9	0.00469	236
36	1 18.3	9.99333	324	126	1 44.2	0.00492	234
38	1 22.0	9.99351	322	128	1 41.4	0.00514	232
40	+1 25.5	9.99370	320	130	+1 38.6	0.00536	230
42	1 29.0	9.99390	318	132	1 35.6	0.00557	228
44	1 32.3	9.99410	316	134	1 32.4	0.00577	226
46	1 35.5	9.99431	314	136	1 29.2	0.00597	224
48	1 38.6	9.99453	312	138	1 25.9	0.00616	222
50	+1 41.6	9.99476	310	140	+1 22.5	0.00634	220
52	1 44.5	9.99499	308	142	1 18.9	0.00651	218
54	1 47.2	9.99523	306	144	1 15.3	0.00668	216
56	1 49.7	9.99547	304	146	1 11.6	0.00683	214
58	1 52.2	9.99572	302	148	1 7.9	0.00698	212
60	+1 54.5	9.99598	300	150	+1 4.0	0.00713	210
62	1 56.6	9.99623	298	152	1 0.1	0.00726	208
64	1 58.6	9.99650	296	154	0 56.1	0.00738	206
66	2 0.5	9.99676	294	156	0 52.0	0.00750	204
68	2 2.2	9.99704	292	158	0 47.9	0.00760	202
70	+2 3.7	9.99731	290	160	+0 43.7	0.00770	200
72	2 5.1	9.99759	288	162	0 39.5	0.00779	198
74	2 6.4	9.99787	286	164	0 35.2	0.00787	196
76	2 7.5	9.99815	284	166	0 30.9	0.00794	194
78	2 8.4	9.99843	282	168	0 26.5	0.00800	192
80	+2 9.2	9.99872	280	170	+0 22.2	0.00805	190
82	2 9.8	9.99900	278	172	0 17.8	0.00810	188
84	2 10.2	9.99929	276	174	0 13.3	0.00813	186
86	2 10.5	9.99958	274	176	0 8.9	0.00815	184
88	2 10.6	9.99987	272	178	0 4.5	0.00817	182
90	+2 10.6	0.00016	270	180	+0 0.0	0.00817	180

ENCELADUS.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$	0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	104° 3.2'	229.8°	1.59620	−16.12"	Okt. 7	228° 51.4'	260.1°	1.58337	−17.03"
2	269 30.9	34.6	1.59502	16.07	9	34 19.2	64.9	1.58487	17.09
4	74 58.7	199.4	1.59381	16.02	11	199 47.0	229.7	1.58635	17.14
6	240 26.4	4.2	1.59255	15.97	13	5 14.8	34.5	1.58781	17.20
8	45 54.2	169.0	1.59125	15.92	15	170 42.6	199.2	1.58924	17.25
10	211 22.0	333.8	1.58991	−15.86	17	336 10.4	4.0	1.59064	−17.31
12	16 49.7	138.6	1.58854	15.81	19	141 38.2	168.8	1.59201	17.36
14	182 17.5	303.4	1.58714	15.76	21	307 6.0	333.6	1.59335	17.41
16	347 45.3	108.1	1.58571	15.71	23	112 33.8	138.4	1.59465	17.46
18	153 13.1	272.9	1.58425	15.66	25	278 1.6	303.2	1.59592	17.51
20	318 40.8	77.7	1.58277	−15.61	27	83 29.4	108.0	1.59714	−17.55
22	124 8.6	242.5	1.58127	15.56	29	248 57.2	272.8	1.59832	17.60
24	289 36.3	47.3	1.57974	15.51	31	54 25.0	77.5	1.59946	17.64
26	95 4.1	212.1	1.57820	15.46	Nov. 2	219 52.8	242.3	1.60055	17.68
28	260 31.8	16.9	1.57664	15.41	4	25 20.6	47.1	1.60160	17.72
30	65 59.6	181.7	1.57507	−15.36	6	190 48.4	211.9	1.60259	−17.76
Febr. 1	231 27.3	346.4	1.57348	15.31	8	356 16.3	16.7	1.60353	17.80
3	36 55.1	151.2	1.57189	15.26	10	161 44.1	181.5	1.60441	17.84
5	202 22.8	316.0	1.57029	15.21	12	327 11.9	346.3	1.60524	17.87
7	7 50.6	120.8	1.56868	15.16	14	132 39.7	151.1	1.60602	17.90
9	173 18.3	285.6	1.56707	−15.12	16	298 7.5	315.8	1.60673	−17.93
11	338 46.1	90.4	1.56546	15.07	18	103 35.3	120.6	1.60738	17.96
13	144 13.8	255.2	1.56385	15.03	20	269 3.1	285.4	1.60798	17.98
15	309 41.6	60.0	1.56224	14.98	22	74 30.9	90.2	1.60851	18.00
17	115 9.4	224.7	1.56064	14.94	24	239 58.8	255.0	1.60897	18.02
19	280 37.2	29.5	1.55904	−14.90	26	45 26.6	59.8	1.60937	−18.03
21	86 4.9	194.3	1.55746	14.86	28	210 54.4	224.6	1.60970	18.04
23	251 32.7	359.1	1.55588	14.82	30	16 22.2	29.4	1.60997	18.05
25	57 0.4	163.9	1.55431	14.78	Dez. 2	181 50.1	194.1	1.61016	18.06
27	222 28.2	328.7	1.55276	14.74	4	347 17.9	358.9	1.61029	18.06
März 1	27 55.9	133.5	1.55122	−14.71	6	152 45.7	163.7	1.61035	−18.06
3	193 23.7	298.3	1.54970	14.67	8	318 13.5	328.5	1.61034	18.06
5	358 51.5	103.0	1.54820	14.64	10	123 41.4	133.3	1.61027	18.06
7	164 19.3	267.8	1.54671	14.61	12	289 9.2	298.1	1.61012	18.05
9	329 47.0	72.6	1.54525	14.58	14	94 37.0	102.9	1.60991	18.04
11	135 14.8	237.4	1.54381	−14.55	16	260 4.8	267.7	1.60963	−18.03
13	300 42.5	42.2	1.54239	14.52	18	65 32.7	72.4	1.60928	18.01
15	106 10.3	207.0	1.54099	14.49	20	231 0.5	237.2	1.60887	17.99
17	271 38.0	11.8	1.53962	14.46	22	36 28.3	42.0	1.60839	17.97
19	77 5.8	176.6	1.53828	14.43	24	201 56.1	206.8	1.60784	17.95
21	242 33.6	341.4	1.53696	−14.41	26	7 24.0	11.6	1.60723	−17.92
23	48 1.4	146.2	1.53568	14.39	28	172 51.8	176.4	1.60656	17.89
25	213 29.1	311.0	1.53442	−14.37	30	338 19.7	341.2	1.60583	17.86
					32	143 47.5	146.0	1.60504	−17.83

ENCELADUS.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+ 0.0′ —	9.99800	360°	90°	+31.6′ —	0.00001	270°
2	1.1	9.99800	358	92	31.6	0.00008	268
4	2.2	9.99800	356	94	31.5	0.00015	266
6	3.3	9.99801	354	96	31.4	0.00022	264
8	4.4	9.99802	352	98	31.3	0.00029	262
10	+ 5.5 —	9.99803	350	100	+31.1 —	0.00035	260
12	6.6	9.99804	348	102	30.9	0.00042	258
14	7.7	9.99806	346	104	30.6	0.00049	256
16	8.8	9.99808	344	106	30.3	0.00056	254
18	9.8	9.99810	342	108	30.0	0.00062	252
20	+10.9 —	9.99812	340	110	+29.7 —	0.00069	250
22	11.9	9.99814	338	112	29.3	0.00075	248
24	12.9	9.99817	336	114	28.8	0.00082	246
26	13.9	9.99820	334	116	28.3	0.00088	244
28	14.9	9.99823	332	118	27.8	0.00094	242
30	+15.9 —	9.99827	330	120	+27.3 —	0.00100	240
32	16.8	9.99830	328	122	26.7	0.00106	238
34	17.8	9.99834	326	124	26.1	0.00112	236
36	18.7	9.99838	324	126	25.5	0.00118	234
38	19.6	9.99842	322	128	24.8	0.00123	232
40	+20.4 —	9.99847	320	130	+24.1 —	0.00129	230
42	21.3	9.99852	318	132	23.4	0.00134	228
44	22.1	9.99856	316	134	22.7	0.00139	226
46	22.8	9.99861	314	136	21.9	0.00144	224
48	23.6	9.99866	312	138	21.1	0.00148	222
50	+24.3 —	9.99872	310	140	+20.2 —	0.00153	220
52	25.0	9.99877	308	142	19.4	0.00157	218
54	25.7	9.99883	306	144	18.5	0.00162	216
56	26.3	9.99889	304	146	17.6	0.00166	214
58	26.9	9.99895	302	148	16.7	0.00169	212
60	+27.5 —	9.99901	300	150	+15.7 —	0.00173	210
62	28.0	9.99907	298	152	14.8	0.00176	208
64	28.5	9.99913	296	154	13.8	0.00179	206
66	29.0	9.99919	294	156	12.8	0.00182	204
68	29.4	9.99926	292	158	11.8	0.00185	202
70	+29.8 —	9.99932	290	160	+10.8 —	0.00187	200
72	30.1	9.99939	288	162	9.7	0.00190	198
74	30.4	9.99946	286	164	8.7	0.00192	196
76	30.7	9.99952	284	166	7.6	0.00193	194
78	31.0	9.99959	282	168	6.5	0.00195	192
80	+31.2 —	9.99966	280	170	+ 5.5 —	0.00196	190
82	31.3	9.99973	278	172	4.4	0.00197	188
84	31.5	9.99980	276	174	3.3	0.00198	186
86	31.6	9.99987	274	176	2.2	0.00199	184
88	31.6	9.99994	272	178	1.1	0.00199	182
90	+31.6 —	0.00001	270	180	+ 0.0 —	0.00199	180

TETHYS.

0^h	L	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$	0^h	L	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	254° 41′.2	1.68890	−19″.96	Okt. 7	10° 1′.2	1.67607	−21″.08
2	276 4.9	1.68772	19.90	9	31 24.9	1.67757	21.15
4	297 28.6	1.68651	19.84	11	52 48.6	1.67905	21.22
6	318 52.3	1.68525	19.78	13	74 12.3	1.68051	21.29
8	340 16.0	1.68395	19.71	15	95 36.1	1.68194	21.35
10	1 39.7	1.68261	−19.65	17	116 59.8	1.68334	−21.42
12	23 3.4	1.68124	19.58	19	138 23.5	1.68471	21.48
14	44 27.2	1.67984	19.52	21	159 47.2	1.68605	21.55
16	65 50.9	1.67841	19.45	23	181 10.9	1.68735	21.61
18	87 14.6	1.67695	19.39	25	202 34.6	1.68862	21.67
20	108 38.3	1.67547	−19.32	27	223 58.3	1.68984	−21.73
22	130 2.1	1.67397	19.26	29	245 22.0	1.69102	21.79
24	151 25.8	1.67244	19.20	31	266 45.8	1.69216	21.84
26	172 49.5	1.67090	19.14	Nov. 2	288 9.5	1.69325	21.89
28	194 13.2	1.66934	19.07	4	309 33.2	1.69430	21.94
30	215 37.0	1.66777	−19.01	6	330 56.9	1.69529	−21.99
Febr. 1	237 0.7	1.66618	18.95	8	352 20.6	1.69623	22.04
3	258 24.4	1.66459	18.89	10	13 44.3	1.69711	22.08
5	279 48.2	1.66299	18.83	12	35 8.0	1.69794	22.12
7	301 11.9	1.66138	18.77	14	56 31.7	1.69872	22.16
9	322 35.6	1.65977	−18.72	16	77 55.5	1.69943	−22.20
11	343 59.3	1.65816	18.66	18	99 19.2	1.70008	22.23
13	5 23.0	1.65655	18.61	20	120 42.9	1.70068	22.26
15	26 46.7	1.65494	18.55	22	142 6.6	1.70121	22.28
17	48 10.5	1.65334	18.50	24	163 30.3	1.70167	22.30
19	69 34.2	1.65174	−18.45	26	184 54.0	1.70207	−22.32
21	90 57.9	1.65016	18.40	28	206 17.7	1.70240	22.33
23	112 21.6	1.64858	18.35	30	227 41.5	1.70267	22.34
25	133 45.3	1.64701	18.30	Dez. 2	249 5.2	1.70286	22.35
27	155 9.0	1.64546	18.25	4	270 28.9	1.70299	22.35
März 1	176 32.7	1.64392	−18.21	6	291 52.7	1.70305	−22.35
3	197 56.4	1.64240	18.17	8	313 16.4	1.70304	22.35
5	219 20.1	1.64090	18.13	10	334 40.1	1.70297	22.35
7	240 43.8	1.63941	18.09	12	356 3.8	1.70282	22.34
9	262 7.5	1.63795	18.05	14	17 27.5	1.70261	22.33
11	283 31.2	1.63651	−18.01	16	38 51.2	1.70233	−22.32
13	304 54.9	1.63509	17.98	18	60 15.0	1.70198	22.30
15	326 18.6	1.63369	17.94	20	81 38.7	1.70157	22.28
17	347 42.3	1.63232	17.91	22	103 2.4	1.70109	22.25
19	9 6.0	1.63098	17.87	24	124 26.1	1.70054	22.22
21	30 29.8	1.62966	−17.84	26	145 49.8	1.69993	−22.19
23	51 53.5	1.62838	17.81	28	167 13.5	1.69926	22.15
25	73 17.2	1.62712	−17.79	30	188 37.2	1.69853	22.11
				32	210 0.9	1.69774	−22.07

DIONE.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	348° 53.2'	293.4°	1.79637	−25.56"
2	251 57.4	196.3	1.79519	25.48
4	155 1.6	99.2	1.79398	25.40
6	58 5.8	2.1	1.79272	25.32
8	321 10.0	265.0	1.79142	25.24
10	224 14.2	167.9	1.79008	−25.16
12	127 18.4	70.8	1.78871	25.08
14	30 22.6	333.7	1.78731	25.00
16	293 26.7	236.6	1.78588	24.91
18	196 30.9	139.5	1.78442	24.83
20	99 35.1	42.4	1.78294	−24.74
22	2 39.3	305.3	1.78144	24.66
24	265 43.5	208.2	1.77991	24.58
26	168 47.7	111.1	1.77837	24.50
28	71 51.9	14.0	1.77681	24.42
30	334 56.1	276.9	1.77524	−24.34
Febr. 1	238 0.2	179.8	1.77365	24.27
3	141 4.4	82.7	1.77206	24.19
5	44 8.6	345.6	1.77046	24.12
7	307 12.8	248.5	1.76885	24.04
9	210 17.0	151.4	1.76724	−23.97
11	113 21.2	54.3	1.76563	23.90
13	16 25.4	317.2	1.76402	23.83
15	279 29.6	220.1	1.76241	23.76
17	182 33.7	123.0	1.76081	23.69
19	85 37.9	25.9	1.75921	−23.62
21	348 42.1	288.8	1.75763	23.56
23	251 46.3	191.7	1.75605	23.50
25	154 50.5	94.6	1.75448	23.44
27	57 54.7	357.5	1.75293	23.38
März 1	320 58.9	260.4	1.75139	−23.32
3	224 3.1	163.3	1.74987	23.27
5	127 7.2	66.2	1.74837	23.22
7	30 11.4	329.1	1.74688	23.17
9	293 15.6	232.0	1.74542	23.12
11	196 19.8	134.9	1.74398	−23.07
13	99 24.0	37.8	1.74256	23.02
15	2 28.2	300.7	1.74116	22.98
17	265 32.4	203.6	1.73979	22.94
19	168 36.6	106.5	1.73845	22.90
21	71 40.7	9.4	1.73713	−22.86
23	334 44.9	272.3	1.73585	22.82
25	237 49.1	175.2	1.73459	−22.78

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Okt. 7	98° 39.3'	19.4°	1.78354	−27.00"
9	1 43.5	282.3	1.78504	27.08
11	264 47.7	185.2	1.78652	27.16
13	167 51.9	88.1	1.78798	27.25
15	70 56.0	351.0	1.78941	27.34
17	334 0.2	253.9	1.79081	−27.43
19	237 4.4	156.8	1.79218	27.52
21	140 8.6	59.7	1.79352	27.60
23	43 12.8	322.6	1.79482	27.68
25	306 17.0	225.5	1.79609	27.76
27	209 21.1	128.4	1.79731	−27.84
29	112 25.3	31.3	1.79849	27.91
31	15 29.5	294.2	1.79963	27.98
Nov. 2	278 33.7	197.1	1.80072	28.05
4	181 37.8	100.0	1.80177	28.11
6	84 42.0	2.9	1.80276	−28.17
8	347 46.2	265.8	1.80370	28.23
10	250 50.4	168.7	1.80458	28.28
12	153 54.6	71.6	1.80541	28.33
14	56 58.8	334.5	1.80619	28.38
16	320 2.9	237.4	1.80690	−28.42
18	223 7.1	140.3	1.80755	28.46
20	126 11.3	43.2	1.80815	28.50
22	29 15.5	306.1	1.80868	28.53
24	292 19.7	209.0	1.80914	28.56
26	195 23.9	111.9	1.80954	−28.58
28	98 28.0	14.8	1.80987	28.60
30	1 32.2	277.7	1.81014	28.62
Dez. 2	264 36.4	180.6	1.81033	28.63
4	167 40.6	83.5	1.81046	28.64
6	70 44.7	346.4	1.81052	−28.64
8	333 48.9	249.3	1.81051	28.64
10	236 53.1	152.2	1.81044	28.63
12	139 57.3	55.1	1.81029	28.62
14	43 1.5	318.0	1.81008	28.60
16	306 5.7	220.9	1.80980	−28.58
18	209 9.8	123.8	1.80945	28.56
20	112 14.0	26.7	1.80904	28.53
22	15 18.2	289.6	1.80856	28.50
24	278 22.4	192.5	1.80801	28.46
26	181 26.6	95.4	1.80740	−28.42
28	84 30.8	358.3	1.80673	28.37
30	347 34.9	261.2	1.80600	28.32
32	250 39.1	164.1	1.80521	−28.27

DIONE.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+ 0.0′ −	9.99913	360°	90°	+ 13.8′ −	0.00000	270°
2	0.5	9.99913	358	92	13.7	0.00003	268
4	1.0	9.99913	356	94	13.7	0.00006	266
6	1.4	9.99913	354	96	13.7	0.00009	264
8	1.9	9.99914	352	98	13.6	0.00012	262
10	+ 2.4 −	9.99914	350	100	+ 13.5 −	0.00015	260
12	2.9	9.99915	348	102	13.4	0.00018	258
14	3.3	9.99916	346	104	13.3	0.00021	256
16	3.8	9.99916	344	106	13.2	0.00024	254
18	4.3	9.99917	342	108	13.1	0.00027	252
20	+ 4.7 −	9.99918	340	110	+ 12.9 −	0.00030	250
22	5.2	9.99919	338	112	12.7	0.00033	248
24	5.6	9.99921	336	114	12.5	0.00035	246
26	6.0	9.99922	334	116	12.3	0.00038	244
28	6.5	9.99923	332	118	12.1	0.00041	242
30	+ 6.9 −	9.99925	330	120	+ 11.9 −	0.00044	240
32	7.3	9.99926	328	122	11.6	0.00046	238
34	7.7	9.99928	326	124	11.4	0.00049	236
36	8.1	9.99930	324	126	11.1	0.00051	234
38	8.5	9.99931	322	128	10.8	0.00053	232
40	+ 8.9 −	9.99933	320	130	+ 10.5 −	0.00056	230
42	9.2	9.99935	318	132	10.2	0.00058	228
44	9.6	9.99937	316	134	9.9	0.00060	226
46	9.9	9.99940	314	136	9.5	0.00062	224
48	10.2	9.99942	312	138	9.2	0.00065	222
50	+ 10.6 −	9.99944	310	140	+ 8.8 −	0.00067	220
52	10.9	9.99947	308	142	8.4	0.00068	218
54	11.1	9.99949	306	144	8.1	0.00070	216
56	11.4	9.99951	304	146	7.7	0.00072	214
58	11.7	9.99954	302	148	7.3	0.00074	212
60	+ 11.9 −	9.99957	300	150	+ 6.9 −	0.00075	210
62	12.2	9.99959	298	152	6.4	0.00077	208
64	12.4	9.99962	296	154	6.0	0.00078	206
66	12.6	9.99965	294	156	5.6	0.00079	204
68	12.8	9.99967	292	158	5.1	0.00080	202
70	+ 12.9 −	9.99970	290	160	+ 4.7 −	0.00081	200
72	13.1	9.99973	288	162	4.2	0.00082	198
74	13.2	9.99976	286	164	3.8	0.00083	196
76	13.3	9.99979	284	166	3.3	0.00084	194
78	13.4	9.99982	282	168	2.9	0.00085	192
80	+ 13.5 −	9.99985	280	170	+ 2.4 −	0.00085	190
82	13.6	9.99988	278	172	1.9	0.00086	188
84	13.7	9.99991	276	174	1.4	0.00086	186
86	13.7	9.99994	274	176	1.0	0.00086	184
88	13.7	9.99997	272	178	0.5	0.00087	182
90	+ 13.8 −	0.00000	270	180	+ 0.0 −	0.00087	180

RHEA.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	341° 9.2′	282.1°	1.94141	−35.70″
2	140 32.0	81.4	1.94023	35.59
4	299 54.8	240.7	1.93902	35.48
6	99 17.6	40.1	1.93776	35.37
8	258 40.4	199.4	1.93646	35.25
10	58 3.2	358.7	1.93512	−35.14
12	217 26.0	158.0	1.93375	35.02
14	16 48.8	317.4	1.93235	34.91
16	176 11.6	116.7	1.93092	34.79
18	335 34.4	276.0	1.92946	34.67
20	134 57.2	75.3	1.92798	−34.56
22	294 20.0	234.7	1.92648	34.44
24	93 42.8	34.0	1.92495	34.33
26	253 5.6	193.3	1.92341	34.22
28	52 28.4	352.6	1.92185	34.11
30	211 51.2	152.0	1.92028	−34.00
Febr. 1	11 14.0	311.3	1.91869	33.89
3	170 36.8	110.6	1.91710	33.78
5	329 59.6	269.9	1.91550	33.68
7	129 22.4	69.3	1.91389	33.58
9	288 45.2	228.6	1.91228	−33.48
11	88 8.0	27.9	1.91067	33.38
13	247 30.8	187.2	1.90906	33.28
15	46 53.6	346.6	1.90745	33.18
17	206 16.3	145.9	1.90585	33.09
19	5 39.1	305.2	1.90425	−33.00
21	165 1.9	104.5	1.90267	32.91
23	324 24.7	263.9	1.90109	32.82
25	123 47.5	63.2	1.89952	32.74
27	283 10.3	222.5	1.89797	32.66
März 1	82 33.1	21.8	1.89643	−32.58
3	241 55.9	181.2	1.89491	32.50
5	41 18.7	340.5	1.89341	32.43
7	200 41.5	139.8	1.89192	32.36
9	0 4.3	299.1	1.89046	32.29
11	159 27.1	98.5	1.88902	−32.22
13	318 49.9	257.8	1.88760	32.15
15	118 12.7	57.1	1.88620	32.09
17	277 35.5	216.4	1.88483	32.03
19	76 58.3	15.8	1.88349	31.97
21	236 21.1	175.1	1.88217	−31.91
23	35 43.9	334.4	1.88089	31.86
25	195 6.7	133.7	1.87963	−31.81

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Okt. 7	334° 20.8′	267.6°	1.92858	−37.70″
9	133 43.6	66.9	1.93000	37.83
11	293 6.4	226.2	1.93156	37.95
13	92 29.2	25.6	1.93302	38.07
15	251 52.0	184.9	1.93445	38.19
17	51 14.7	344.2	1.93585	−38.31
19	210 37.5	143.5	1.93722	38.43
21	10 0.3	302.9	1.93856	38.54
23	169 23.1	102.2	1.93986	38.65
25	328 45.9	261.5	1.94113	38.76
27	128 8.7	60.8	1.94235	−38.87
29	287 31.5	220.2	1.94353	38.97
31	86 54.3	19.5	1.94467	39.07
Nov. 2	246 17.1	178.8	1.94576	39.16
4	45 39.9	338.1	1.94681	39.25
6	205 2.7	137.5	1.94780	−39.34
8	4 25.5	296.8	1.94874	39.42
10	163 48.3	96.1	1.94962	39.50
12	323 11.1	255.4	1.95045	39.57
14	122 33.9	54.8	1.95123	39.64
16	281 56.7	214.1	1.95194	−39.70
18	81 19.5	13.4	1.95259	39.75
20	240 42.3	172.7	1.95319	39.80
22	40 5.1	332.1	1.95372	39.85
24	199 27.9	131.4	1.95418	39.89
26	358 50.7	290.7	1.95458	−39.92
28	158 13.5	90.0	1.95491	39.95
30	317 36.3	249.4	1.95518	39.97
Dez. 2	116 59.0	48.7	1.95537	39.99
4	276 21.8	208.0	1.95550	40.00
6	75 44.6	7.3	1.95556	−40.00
8	235 7.4	166.7	1.95555	39.99
10	34 30.2	326.0	1.95548	39.98
12	193 53.0	125.3	1.95533	39.97
14	353 15.8	284.6	1.95512	39.95
16	152 38.6	84.0	1.95484	−39.92
18	312 1.4	243.3	1.95449	39.88
20	111 24.2	42.6	1.95408	39.84
22	270 47.0	201.9	1.95360	39.79
24	70 9.8	1.3	1.95305	39.74
26	229 32.6	160.6	1.95244	−39.68
28	28 55.4	319.9	1.95177	39.61
30	188 18.2	119.2	1.95104	39.54
32	347 41.0	278.6	1.95025	−39.47

RHEA.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+0.0—	9.99961	360°	90°	+6.2—	0.00000	270°
2	0.2	9.99961	358	92	6.2	0.00001	268
4	0.4	9.99961	356	94	6.2	0.00003	266
6	0.6	9.99961	354	96	6.2	0.00004	264
8	0.9	9.99961	352	98	6.1	0.00005	262
10	+1.1—	9.99961	350	100	+6.1—	0.00007	260
12	1.3	9.99962	348	102	6.1	0.00008	258
14	1.5	9.99962	346	104	6.0	0.00009	256
16	1.7	9.99962	344	106	5.9	0.00011	254
18	1.9	9.99963	342	108	5.9	0.00012	252
20	+2.1—	9.99963	340	110	+5.8—	0.00013	250
22	2.3	9.99964	338	112	5.7	0.00015	248
24	2.5	9.99964	336	114	5.7	0.00016	246
26	2.7	9.99965	334	116	5.6	0.00017	244
28	2.9	9.99966	332	118	5.5	0.00018	242
30	+3.1—	9.99966	330	120	+5.4—	0.00019	240
32	3.3	9.99967	328	122	5.2	0.00021	238
34	3.5	9.99968	326	124	5.1	0.00022	236
36	3.6	9.99968	324	126	5.0	0.00023	234
38	3.8	9.99969	322	128	4.9	0.00024	232
40	+4.0—	9.99970	320	130	+4.7—	0.00025	230
42	4.1	9.99971	318	132	4.6	0.00026	228
44	4.3	9.99972	316	134	4.5	0.00027	226
46	4.5	9.99973	314	136	4.3	0.00028	224
48	4.6	9.99974	312	138	4.1	0.00029	222
50	+4.7—	9.99975	310	140	+4.0—	0.00030	220
52	4.9	9.99976	308	142	3.8	0.00031	218
54	5.0	9.99977	306	144	3.6	0.00032	216
56	5.1	9.99978	304	146	3.5	0.00032	214
58	5.2	9.99979	302	148	3.3	0.00033	212
60	+5.4—	9.99980	300	150	+3.1—	0.00034	210
62	5.5	9.99982	298	152	2.9	0.00034	208
64	5.6	9.99983	296	154	2.7	0.00035	206
66	5.7	9.99984	294	156	2.5	0.00036	204
68	5.7	9.99985	292	158	2.3	0.00036	202
70	+5.8—	9.99987	290	160	+2.1—	0.00037	200
72	5.9	9.99988	288	162	1.9	0.00037	198
74	5.9	9.99989	286	164	1.7	0.00037	196
76	6.0	9.99991	284	166	1.5	0.00038	194
78	6.1	9.99992	282	168	1.3	0.00038	192
80	+6.1—	9.99993	280	170	+1.1—	0.00038	190
82	6.1	9.99995	278	172	0.9	0.00039	188
84	6.2	9.99996	276	174	0.6	0.00039	186
86	6.2	9.99997	274	176	0.4	0.00039	184
88	6.2	9.99999	272	178	0.2	0.00039	182
90	+6.2—	0.00000	270	180	+0.0—	0.00039	180

Bewegung der mittleren Länge *L*.

Zeit	Mimas	Enceladus	Tethys	Dione	Rhea
1^d	22° 0.0'	262° 43.9'	190° 41.9'	131° 32.1'	79° 41.4'
1^h	15 55.0	10 56.8	7 56.7	5 28.8	3 19.2
2	31 50.0	21 53.7	15 53.5	10 57.7	6 38.4
3	47 45.0	32 50.5	23 50.2	16 26.5	9 57.7
4	63 40.0	43 47.3	31 47.0	21 55.3	13 16.9
5	79 35.0	54 44.1	39 43.7	27 24.2	16 36.1
6	95 30.0	65 41.0	47 40.5	32 53.0	19 55.3
7	111 25.0	76 37.8	55 37.2	38 21.9	23 14.6
8	127 20.0	87 34.6	63 34.0	43 50.7	26 33.8
9	143 15.0	98 31.5	71 30.7	49 19.5	29 53.0
10	159 10.0	109 28.3	79 27.5	54 48.4	33 12.2
11	175 5.0	120 25.1	87 24.2	60 17.2	36 31.5
12	191 0.0	131 22.0	95 20.9	65 46.0	39 50.7
13	206 55.0	142 18.8	103 17.7	71 14.9	43 9.9
14	222 50.0	153 15.6	111 14.4	76 43.7	46 29.1
15	238 45.0	164 12.4	119 11.2	82 12.6	49 48.4
16	254 40.0	175 9.3	127 7.9	87 41.4	53 7.6
17	270 35.0	186 6.1	135 4.7	93 10.2	56 26.8
18	286 30.0	197 2.9	143 1.4	98 39.1	59 46.0
19	302 25.0	207 59.8	150 58.2	104 7.9	63 5.3
20	318 20.0	218 56.6	158 54.9	109 36.7	66 24.5
21	334 15.0	229 53.4	166 51.7	115 5.6	69 43.7
22	350 10.0	240 50.2	174 48.4	120 34.4	73 2.9
23	6 5.0	251 47.1	182 45.2	126 3.3	76 22.2
1^m	0 15.9	0 10.9	0 7.9	0 5.5	0 3.3
2	0 31.8	0 21.9	0 15.9	0 11.0	0 6.6
3	0 47.8	0 32.8	0 23.8	0 16.4	0 10.0
4	1 3.7	0 43.8	0 31.8	0 21.9	0 13.3
5	1 19.6	0 54.7	0 39.7	0 27.4	0 16.6
6	1 35.5	1 5.7	0 47.6	0 32.9	0 19.9
7	1 51.4	1 16.6	0 55.6	0 38.4	0 23.2
8	2 7.4	1 27.6	1 3.5	0 43.8	0 26.6
9	2 23.3	1 38.5	1 11.5	0 49.3	0 29.9
10	2 39.2	1 49.5	1 19.4	0 54.8	0 33.2
20	5 18.3	3 38.9	2 38.9	1 49.6	1 6.4
30	7 57.5	5 28.4	3 58.3	2 44.4	1 39.6
40	10 36.7	7 17.9	5 17.8	3 39.2	2 12.8
50	13 15.8	9 7.3	6 37.2	4 34.0	2 46.0
10	0 2.6	0 1.8	0 1.3	0 0.9	0 0.5
20	0 5.3	0 3.6	0 2.6	0 1.8	0 1.1
30	0 7.9	0 5.4	0 3.9	0 2.7	0 1.6
40	0 10.6	0 7.3	0 5.3	0 3.7	0 2.2
50	0 13.2	0 9.1	0 6.6	0 4.6	0 2.7

Bewegung der mittleren Anomalie M.					$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale.						
Zeit	Mimas	Encel.	Dione	Rhea	$u-U$	Mimas	Encel.	Tethys	Dione	Rhea	$u-U$
1ᵈ	21.00°	262.4°	131.5°	79.7°	0°	−6	−7	−9	−11	−16	360°
					4	−6	−7	−9	−11	−16	356
1ʰ	15.87	10.9	5.5	3.3	8	−6	−7	−9	−11	−16	352
2	31.75	21.9	11.0	6.6	12	−5	−7	−8	−11	−15	348
3	47.62	32.8	16.4	10.0	16	−5	−7	−8	−11	−15	344
4	63.50	43.7	21.9	13.3	20	−5	−7	−8	−11	−15	340
5	79.37	54.7	27.4	16.6	24	−5	−7	−8	−11	−14	336
6	95.25	65.6	32.9	19.9	28	−5	−7	−8	−10	−14	332
7	111.12	76.5	38.4	23.2	32	−4	−6	−7	−10	−13	328
8	127.00	87.5	43.8	26.6	36	−4	−6	−7	−9	−13	324
9	142.87	98.4	49.3	29.9	40	−4	−6	−7	−9	−12	320
10	158.75	109.3	54.8	33.2	44	−4	−6	−6	−8	−11	316
11	174.62	120.3	60.3	36.5	48	−4	−5	−6	−8	−10	312
12	190.50	131.2	65.7	39.8	52	−3	−5	−5	−7	−10	308
13	206.37	142.1	71.2	43.2	56	−3	−4	−5	−7	−9	304
14	222.25	153.1	76.7	46.5	60	−3	−4	−4	−6	−8	300
15	238.12	164.0	82.2	49.8	64	−3	−3	−4	−5	−7	296
16	254.00	174.9	87.7	53.1	68	−2	−3	−3	−4	−6	292
17	269.87	185.9	93.1	56.5	72	−2	−2	−3	−4	−5	288
18	285.75	196.8	98.6	59.8	76	−1	−2	−2	−3	−4	284
19	301.62	207.7	104.1	63.1	80	−1	−1	−2	−2	−3	280
20	317.50	218.7	109.6	66.4	84	−1	−1	−1	−1	−2	276
21	333.37	229.6	115.1	69.7	88	0	0	0	0	−1	272
22	349.25	240.5	120.5	73.1	92	0	0	0	0	+1	268
23	5.12	251.5	126.0	76.4	96	+1	+1	+1	+1	+2	264
					100	+1	+1	+2	+2	+3	260
1ᵐ	0.26	0.2	0.1	0.0	104	+1	+2	+2	+3	+4	256
2	0.53	0.4	0.2	0.1	108	+2	+2	+3	+4	+5	252
3	0.79	0.5	0.3	0.1	112	+2	+3	+3	+4	+6	248
4	1.06	0.7	0.4	0.2	116	+3	+3	+4	+5	+7	244
5	1.32	0.9	0.4	0.2	120	+3	+4	+4	+6	+8	240
6	1.58	1.1	0.5	0.3	124	+3	+4	+5	+7	+9	236
7	1.85	1.3	0.6	0.3	128	+3	+5	+5	+7	+10	232
8	2.11	1.4	0.7	0.4	132	+4	+5	+6	+8	+10	228
9	2.38	1.6	0.8	0.4	136	+4	+6	+6	+8	+11	224
10	2.64	1.8	0.9	0.5	140	+4	+6	+7	+9	+12	220
20	5.29	3.6	1.8	1.1	144	+4	+6	+7	+9	+13	216
30	7.93	5.4	2.7	1.6	148	+4	+6	+7	+10	+13	212
40	10.58	7.3	3.7	2.2	152	+5	+7	+8	+10	+14	208
50	13.22	9.1	4.6	2.7	156	+5	+7	+8	+11	+14	204
					160	+5	+7	+8	+11	+15	200
10ˢ	0.04	0.0	0.0	0.0	164	+5	+7	+8	+11	+15	196
20	0.09	0.1	0.0	0.0	168	+5	+7	+8	+11	+15	192
30	0.13	0.1	0.0	0.0	172	+6	+7	+9	+11	+16	188
40	0.17	0.1	0.1	0.0	176	+6	+7	+9	+11	+16	184
50	0.22	0.2	0.1	0.0	180	+6	+7	+9	+11	+16	180

TITAN.

0h	U	B	P
Jan. 0	291° 41′.9	−23° 41′.8	−2° 31′.0
2	291 35.8	23 41.2	2 30.3
4	291 30.0	23 40.7	2 29.6
6	291 24.5	23 40.3	2 29.0
8	291 19.3	23 40.0	2 28.4
10	291 14.6	−23 39.8	−2 27.9
12	291 10.4	23 39.6	2 27.4
14	291 6.7	23 39.5	2 27.0
16	291 3.4	23 39.6	2 26.6
18	291 0.6	23 39.7	2 26.3
20	290 58.3	−23 39.9	−2 26.0
22	290 56.4	23 40.1	2 25.8
24	290 55.0	23 40.5	2 25.7
26	290 54.1	23 40.9	2 25.7
28	290 53.7	23 41.4	2 25.6
30	290 53.7	−23 42.0	−2 25.6
Febr. 1	290 54.3	23 42.7	2 25.7
3	290 55.3	23 43.5	2 25.8
5	290 56.9	23 44.3	2 26.0
7	290 58.9	23 45.2	2 26.2
9	291 1.5	−23 46.1	−2 26.5
11	291 4.5	23 47.1	2 26.8
13	291 8.0	23 48.2	2 27.2
15	291 11.9	23 49.4	2 27.7
17	291 16.3	23 50.6	2 28.2
19	291 21.2	−23 52.0	−2 28.8
21	291 26.5	23 53.4	2 29.4
23	291 32.3	23 54.9	2 30.1
25	291 38.5	23 56.5	2 30.8
27	291 45.1	23 58.1	2 31.6
März 1	291 52.2	−23 59.8	−2 32.4
3	291 59.7	24 1.6	2 33.2
5	292 7.7	24 3.4	2 34.1
7	292 16.1	24 5.3	2 35.0
9	292 24.8	24 7.2	2 36.0
11	292 33.9	−24 9.2	−2 37.0
13	292 43.5	24 11.2	2 38.1
15	292 53.4	24 13.2	2 39.2
17	293 3.7	24 15.3	2 40.4
19	293 14.3	24 17.4	2 41.6
21	293 25.3	−24 19.6	−2 42.9
23	293 36.6	24 21.8	2 44.2
25	293 48.3	−24 24.0	−2 45.6

0h	U	B	P
Okt. 7	313° 53′.2	−25° 58′.6	−4° 49′.6
9	313 51.3	25 58.4	4 49.4
11	313 49.0	25 58.2	4 49.2
13	313 46.2	25 58.0	4 48.9
15	313 42.9	25 57.8	4 48.6
17	313 39.1	−25 57.6	−4 48.3
19	313 34.9	25 57.4	4 47.9
21	313 30.2	25 57.2	4 47.4
23	313 25.0	25 57.0	4 47.0
25	313 19.4	25 56.9	4 46.5
27	313 13.4	−25 56.7	−4 45.9
29	313 7.0	25 56.6	4 45.3
31	313 0.2	25 56.4	4 44.7
Nov. 2	312 53.0	25 56.3	4 44.0
4	312 45.4	25 56.1	4 43.3
6	312 37.4	−25 56.0	−4 42.5
8	312 29.1	25 55.8	4 41.8
10	312 20.5	25 55.6	4 41.0
12	312 11.5	25 55.4	4 40.2
14	312 2.2	25 55.3	−4 39.3
16	311 52.7	−25 55.1	4 38.4
18	311 42.9	25 54.9	4 37.5
20	311 32.9	25 54.7	4 36.5
22	311 22.7	25 54.6	4 35.6
24	311 12.3	25 54.4	−4 34.6
26	311 1.8	−25 54.2	4 33.6
28	310 51.1	25 54.0	4 32.6
30	310 40.3	25 53.9	4 31.6
Dez. 2	310 29.4	25 53.7	4 30.5
4	310 18.5	25 53.5	−4 29.5
6	310 7.5	−25 53.3	4 28.5
8	309 56.5	25 53.2	4 27.5
10	309 45.5	25 53.0	4 26.4
12	309 34.6	25 52.9	4 25.4
14	309 23.7	25 52.7	−4 24.3
16	309 12.9	−25 52.6	4 23.3
18	309 2.2	25 52.4	4 22.3
20	308 51.6	25 52.3	4 21.3
22	308 41.2	25 52.1	4 20.3
24	308 31.0	25 52.0	−4 19.3
26	308 21.1	−25 51.8	4 18.3
28	308 11.4	25 51.7	4 17.3
30	308 1.9	25 51.6	4 16.4
32	307 52.7	−25 51.5	−4 15.5

TITAN.

0ʰ	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		0ʰ	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan. 0	+11ˢ.18	−4ˢ.34	+56″.9	+17″.5	Febr. 11	+0ˢ.71	+4ˢ.91	−77″.0	+9″.1
1	+6.84	−5.40	+74.4	+6.0	12	+5.62	+4.10	−67.9	+18.7
2	+1.44	−5.60	+80.4	−7.0	13	+9.72	+2.72	−49.2	+25.5
3	−4.16	−4.90	+73.4	−19.1	14	+12.44	+0.97	−23.7	+28.8
4	−9.06	−3.37	+54.3	−28.0	15	+13.41	−0.95	+5.1	+28.1
5	−12.43	−1.28	+26.3	−32.4	16	+12.46	−2.78	+33.2	+23.0
6	−13.71	+0.99	−6.1	−31.2	17	+9.68	−4.22	+56.2	+14.4
7	−12.72	+3.02	−37.3	−25.1	18	+5.46	−5.04	+70.6	+3.5
8	−9.70	+4.53	−62.4	−15.4	19	+0.42	−5.09	+74.1	−8.3
9	−5.17	+5.31	−77.8	−3.6	20	−4.67	−4.30	+65.8	−19.2
10	+0.14	+5.26	−81.4	+8.3	21	−8.97	−2.80	+46.6	−26.9
11	+5.40	+4.46	−73.1	+19.0	22	−11.77	−0.84	+19.7	−30.1
12	+9.86	+3.07	−54.1	+26.1	23	−12.61	+1.22	−10.4	−28.3
13	+12.93	+1.24	−28.0	+30.2	24	−11.39	+3.03	−38.7	−22.1
14	+14.17	−0.79	+2.2	+29.8	25	−8.36	+4.30	−60.8	−12.7
15	+13.38	−2.76	+32.0	+25.1	26	−4.06	+4.89	−73.5	−1.7
16	+10.62	−4.35	+57.1	+16.3	27	+0.83	+4.75	−75.2	+9.1
17	+6.27	−5.29	+73.4	+4.8	28	+5.58	+3.95	−66.1	+18.5
18	+0.98	−5.44	+78.2	−7.7	März 1	+9.53	+2.61	−47.6	+25.1
19	−4.46	−4.68	+70.5	−19.3	2	+12.14	+0.90	−22.5	+28.3
20	−9.14	−3.14	+51.2	−27.8	3	+13.04	−0.97	+5.8	+27.3
21	−12.28	−1.08	+23.4	−31.5	4	+12.07	−2.71	+33.1	+22.5
22	−13.36	+1.12	−8.1	−30.1	5	+9.36	−4.10	+55.6	+14.0
23	−12.24	+3.07	−38.2	−23.9	6	+5.26	−4.94	+69.6	+3.1
24	−9.17	+4.47	−62.1	−14.3	7	+0.32	−4.95	+72.7	−8.5
25	−4.70	+5.18	−76.4	−2.9	8	−4.63	−4.16	+64.2	−19.0
26	+0.48	+5.10	−79.3	+8.8	9	−8.79	−2.70	+45.2	−26.5
27	+5.58	+4.27	−70.5	+18.9	10	−11.49	−0.79	+18.7	−29.5
28	+9.85	+2.87	−51.6	+26.1	11	−12.28	+1.20	−10.8	−27.7
29	+12.72	+1.07	−25.5	+29.5	12	−11.08	+2.95	−38.5	−21.6
30	+13.79	−0.90	+4.0	+28.8	13	−8.13	+4.19	−60.1	−12.3
31	+12.89	−2.78	+32.8	+24.0	14	−3.94	+4.76	−72.4	−1.5
Febr. 1	+10.11	−4.29	+56.8	+15.3	15	+0.82	+4.63	−73.9	+9.0
2	+5.82	−5.18	+72.1	+4.1	16	+5.45	+3.85	−64.9	+18.3
3	+0.64	−5.27	+76.2	−8.2	17	+9.30	+2.54	−46.6	+24.8
4	−4.63	−4.47	+68.0	−19.4	18	+11.84	+0.88	−21.8	+27.7
5	−9.10	−2.91	+48.6	−27.3	19	+12.72	−0.93	+5.9	+26.9
6	−12.01	−0.97	+21.3	−30.8	20	+11.79	−2.66	+32.8	+22.1
7	−12.98	+1.19	−9.5	−29.1	21	+9.13	−4.02	+54.9	+13.8
8	−11.79	+3.07	−38.6	−22.9	22	+5.11	−4.79	+68.7	+3.0
9	−8.72	+4.40	−61.5	−13.4	23	+0.32	−4.83	+71.7	−8.5
10	−4.32	+5.03	−74.9	−2.1	24	−4.51	−4.08	+63.2	−18.9
11	+0.71		−77.0		25	−8.59		+44.3	

TITAN.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Okt. 7	$-9^s.91$	$+4^s.44$	$-71''.2$	$-15''.1$
8	−5.47	+5.25	−86.3	−2.5
9	−0.22	+5.31	−88.8	+10.1
10	+5.09	+4.60	−78.7	+21.4
11	+9.69	+3.25	−57.3	+29.6
12	+12.94	+1.41	−27.7	+33.7
13	+14.35	−0.69	+6.0	+32.8
14	+13.66	−2.75	+38.8	+27.1
15	+10.91	−4.46	+65.9	+17.0
16	+6.45	−5.51	+82.9	+3.6
17	+0.94	−5.68	+86.5	−10.6
18	−4.74	−4.91	+75.9	−23.4
19	−9.65	−3.30	+52.5	−32.2
20	−12.95	−1.17	+20.3	−35.7
21	−14.12	+1.11	−15.4	−33.2
22	−13.01	+3.14	−48.6	−25.8
23	−9.87	+4.65	−74.4	−14.7
24	−5.22	+5.43	−89.1	−1.6
25	+0.21	+5.42	−90.7	+11.4
26	+5.63	+4.64	−79.3	+22.8
27	+10.27	+3.19	−56.5	+30.8
28	+13.46	+1.27	−25.7	+34.5
29	+14.73	−0.89	+8.8	+33.4
30	+13.84	−2.99	+42.2	+27.1
31	+10.85	−4.69	+69.3	+16.3
Nov. 1	+6.16	−5.69	+85.6	+2.5
2	+0.47	−5.79	+88.1	−12.1
3	−5.32	−4.90	+76.0	−24.6
4	−10.22	−3.19	+51.4	−33.6
5	−13.41	−0.98	+17.8	−36.5
6	−14.39	+1.34	−18.7	−33.5
7	−13.05	+3.38	−52.2	−25.4
8	−9.67	+4.86	−77.6	−13.8
9	−4.81	+5.58	−91.4	−0.4
10	+0.77	+5.48	−91.8	+12.8
11	+6.25	+4.61	−79.0	+24.1
12	+10.86	+3.06	−54.9	+31.9
13	+13.92	+1.07	−23.0	+35.3
14	+14.99	−1.13	+12.3	+33.5
15	+13.86	−3.25	+45.8	+26.6
16	+10.61	−4.91	+72.4	+15.3
17	+5.70	−5.85	+87.7	+1.1
18	−0.15	−5.82	+88.8	−13.6
19	−5.97		+75.2	

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Nov. 19	$-5^s.97$	$-4^s.82$	$+75''.2$	$-26''.3$
20	−10.79	−3.02	+48.9	−34.4
21	−13.81	−0.73	+14.5	−36.9
22	−14.54	+1.61	−22.4	−33.4
23	−12.93	+3.63	−55.8	−24.7
24	−9.30	+5.04	−80.5	−12.5
25	−4.26	+5.68	−93.0	+1.1
26	+1.42	+5.48	−91.9	+14.3
27	+6.90	+4.50	−77.6	+25.3
28	+11.40	+2.89	−52.3	+32.8
29	+14.29	+0.82	−19.5	+35.6
30	+15.11	−1.41	+16.1	+33.3
Dez. 1	+13.70	−3.49	+49.4	+25.7
2	+10.21	−5.10	+75.1	+13.9
3	+5.11	−5.92	+89.0	−0.4
4	−0.81	−5.78	+88.6	−15.2
5	−6.59	−4.68	+73.4	−27.4
6	−11.27	−2.78	+46.0	−35.2
7	−14.05	−0.46	+10.8	−37.0
8	−14.51	+1.88	−26.2	−32.7
9	−12.63	+3.85	−58.9	−23.6
10	−8.78	+5.17	−82.5	−11.1
11	−3.51	+5.71	−93.6	+2.6
12	+2.10	+5.40	−91.0	+15.6
13	+7.50	+4.34	−75.4	+26.4
14	+11.84	+2.65	−49.0	+33.3
15	+14.49	+0.56	−15.7	+35.5
16	+15.05	−1.67	+19.8	+32.6
17	+13.38	−3.70	+52.4	+24.5
18	+9.68	−5.24	+76.9	+12.5
19	+4.44	−5.94	+89.4	−2.1
20	−1.50	−5.67	+87.3	−16.6
21	−7.17	−4.46	+70.7	−28.4
22	−11.63	−2.51	+42.3	−35.4
23	−14.14	−0.18	+6.9	−36.5
24	−14.32	+2.13	−29.6	−31.8
25	−12.19	+4.02	−61.4	−22.2
26	−8.17	+5.24	−83.6	−9.5
27	−2.93	+5.66	−93.1	+4.0
28	+2.73	+5.27	−89.1	+16.8
29	+8.00	+4.13	−72.3	+27.0
30	+12.13	+2.39	−45.3	+33.4
31	+14.52	+0.30	−11.9	+35.0
32	+14.82		+23.1	

HYPERION.

0h		U	B	P	0h		U	B	P
Jan.	0	287° 3.4	−23° 31.4	−1° 53.2	Okt.	7	309° 6.2	−26° 3.0	−4° 9.5
	2	286 57.1	23 30.8	1 52.5		9	309 4.3	26 2.7	4 9.3
	4	286 51.2	23 30.2	1 51.9		11	309 1.9	26 2.5	4 9.1
	6	286 45.7	23 29.7	1 51.3		13	308 59.0	26 2.3	4 8.8
	8	286 40.6	23 29.3	1 50.7		15	308 55.7	26 2.1	4 8.5
	10	286 35.9	−23 29.0	−1 50.1		17	308 51.9	−26 1.9	−4 8.2
	12	286 31.7	23 28.7	1 49.7		19	308 47.6	26 1.7	4 7.8
	14	286 27.9	23 28.5	1 49.3		21	308 42.8	26 1.5	4 7.3
	16	286 24.6	23 28.5	1 49.0		23	308 37.6	26 1.3	4 6.8
	18	286 21.7	23 28.6	1 48.7		25	308 32.0	26 1.1	4 6.3
	20	286 19.3	−23 28.7	−1 48.4		27	308 25.9	−26 0.8	−4 5.7
	22	286 17.4	23 28.9	1 48.2		29	308 19.4	26 0.5	4 5.1
	24	286 16.0	23 29.2	1 48.1		31	308 12.5	26 0.3	4 4.5
	26	286 15.1	23 29.6	1 48.0	Nov.	2	308 5.2	26 0.0	4 3.8
	28	286 14.6	23 30.1	1 48.0		4	307 57.6	25 59.8	4 3.1
	30	286 14.7	−23 30.7	−1 48.0		6	307 49.6	−25 59.6	−4 2.4
Febr.	1	286 15.2	23 31.4	1 48.0		8	307 41.3	25 59.4	4 1.6
	3	286 16.2	23 32.2	1 48.1		10	307 32.6	25 59.2	4 0.8
	5	286 17.7	23 33.1	1 48.3		12	307 23.6	25 58.9	4 0.0
	7	286 19.7	23 34.1	1 48.5		14	307 14.3	25 58.6	3 59.1
	9	286 22.1	−23 35.1	−1 48.8		16	307 4.8	−25 58.4	−3 58.2
	11	286 25.0	23 36.3	1 49.1		18	306 55.0	25 58.1	3 57.3
	13	286 28.4	23 37.5	1 49.5		20	306 44.9	25 57.8	3 56.3
	15	286 32.3	23 38.8	1 49.9		22	306 34.6	25 57.6	3 55.4
	17	286 36.6	23 40.2	1 50.4		24	306 24.2	25 57.3	3 54.4
	19	286 41.4	−23 41.7	−1 50.9		26	306 13.6	−25 57.0	−3 53.4
	21	286 46.7	23 43.2	1 51.5		28	306 2.9	25 56.7	3 52.4
	23	286 52.4	23 44.8	1 52.2		30	305 52.0	25 56.4	3 51.4
	25	286 58.5	23 46.4	1 52.9	Dez.	2	305 41.1	25 56.1	3 50.3
	27	287 5.1	23 48.1	1 53.6		4	305 30.1	25 55.8	3 49.3
März	1	287 12.1	−23 49.9	−1 54.4		6	305 19.1	−25 55.5	−3 48.2
	3	287 19.5	23 51.7	1 55.2		8	305 8.1	25 55.3	3 47.2
	5	287 27.4	23 53.6	1 56.1		10	304 57.0	25 55.0	3 46.1
	7	287 35.7	23 55.5	1 57.0		12	304 46.0	25 54.7	3 45.0
	9	287 44.4	23 57.5	1 58.0		14	304 35.1	25 54.4	3 44.0
	11	287 53.5	−23 59.5	−1 59.0		16	304 24.3	−25 54.2	−3 42.9
	13	288 3.0	24 1.6	2 0.0		18	304 13.6	25 53.9	3 41.9
	15	288 12.9	24 3.7	2 1.1		20	304 3.0	25 53.7	3 40.9
	17	288 23.1	24 5.9	2 2.3		22	303 52.6	25 53.4	3 39.9
	19	288 33.7	24 8.1	2 3.5		24	303 42.4	25 53.1	3 38.9
	21	288 44.6	−24 10.4	−2 4.7		26	303 32.3	−25 52.9	−3 37.9
	23	288 55.8	24 12.7	2 5.9		28	303 22.5	25 52.7	3 36.9
	25	289 7.4	−24 15.1	−2 7.2		30	303 12.9	25 52.6	3 36.0
						32	303 3.6	−25 52.5	−3 35.1

HYPERION.

0^h		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan.	0	+ 1.70 s	−5.50 s	+ 89.4″	− 2.6″
	1	− 3.80	−5.07	+ 86.8	−12.0
	2	− 8.87	−4.18	+ 74.8	−19.5
	3	−13.05	−2.97	+ 55.3	−24.4
	4	−16.02	−1.62	+ 30.9	−27.0
	5	−17.64	−0.25	+ 3.9	−27.2
	6	−17.89	+1.03	− 23.3	−25.4
	7	−16.86	+2.18	− 48.7	−22.0
	8	−14.68	+3.15	− 70.7	−17.3
	9	−11.53	+3.89	− 88.0	−11.6
	10	− 7.64	+4.37	− 99.6	− 5.0
	11	− 3.27	+4.57	−104.6	+ 2.0
	12	+ 1.30	+4.46	−102.6	+ 9.2
	13	+ 5.76	+4.02	− 93.4	+16.0
	14	+ 9.78	+3.23	− 77.4	+22.2
	15	+13.01	+2.08	− 55.2	+26.8
	16	+15.09	+0.63	− 28.4	+29.4
	17	+15.72	−0.99	+ 1.0	+29.2
	18	+14.73	−2.63	+ 30.2	+25.8
	19	+12.10	−4.02	+ 56.0	+19.1
	20	+ 8.08	−4.97	+ 75.1	+10.2
	21	+ 3.11	−5.31	+ 85.3	+ 0.3
	22	− 2.20	−5.05	+ 85.6	− 9.1
	23	− 7.25	−4.31	+ 76.5	−16.8
	24	−11.56	−3.21	+ 59.7	−22.5
	25	−14.77	−1.94	+ 37.2	−25.5
	26	−16.71	−0.61	+ 11.7	−26.3
	27	−17.32	+0.65	− 14.6	−25.2
	28	−16.67	+1.80	− 39.8	−22.4
	29	−14.87	+2.79	− 62.2	−18.1
	30	−12.08	+3.55	− 80.3	−12.9
	31	− 8.53	+4.08	− 93.2	− 6.8
Febr.	1	− 4.45	+4.37	−100.0	− 0.1
	2	− 0.08	+4.38	−100.1	+ 6.8
	3	+ 4.30	+4.04	− 93.3	+13.6
	4	+ 8.34	+3.36	− 79.7	+19.7
	5	+11.70	+2.36	− 60.0	+24.8
	6	+14.06	+1.04	− 35.2	+28.0
	7	+15.10	−0.49	− 7.2	+28.5
	8	+14.61	−2.08	+ 21.3	+26.2
	9	+12.53	−3.51	+ 47.5	+20.6
	10	+ 9.02	−4.56	+ 68.1	+12.5
	11	+ 4.46		+ 80.6	

0^h		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Febr.	11	+ 4.46 s	−5.05 s	+80.6″	+ 3.2″
	12	− 0.59	−4.98	+83.8	− 6.1
	13	− 5.57	−4.40	+77.7	−14.1
	14	− 9.97	−3.43	+63.6	−20.1
	15	−13.40	−2.24	+43.5	−24.0
	16	−15.64	−0.99	+19.5	−25.5
	17	−16.63	+0.24	− 6.0	−24.8
	18	−16.39	+1.39	−30.8	−22.6
	19	−15.00	+2.39	−53.4	−19.1
	20	−12.61	+3.19	−72.5	−14.2
	21	− 9.42	+3.80	−86.7	− 8.5
	22	− 5.62	+4.16	−95.2	− 2.3
	23	− 1.46	+4.24	−97.5	+ 4.5
	24	+ 2.78	+4.02	−93.0	+11.1
	25	+ 6.80	+3.49	−81.9	+17.3
	26	+10.29	+2.65	−64.6	+23.2
	27	+12.94	+1.43	−41.4	+26.4
	28	+14.37	−0.02	−15.0	+27.6
März	1	+14.35	−1.53	+12.6	+26.4
	2	+12.82	−2.97	+39.0	+22.0
	3	+ 9.85	−4.11	+61.0	+14.8
	4	+ 5.74	−4.76	+75.8	+ 6.0
	5	+ 0.98	−4.85	+81.8	− 3.1
	6	− 3.87	−4.43	+78.7	−11.4
	7	− 8.30	−3.63	+67.3	−17.9
	8	−11.93	−2.57	+49.4	−22.2
	9	−14.50	−1.38	+27.2	−24.4
	10	−15.88	−0.18	+ 2.8	−24.5
	11	−16.06	+0.96	−21.7	−23.0
	12	−15.10	+1.98	−44.7	−19.9
	13	−13.12	+2.83	−64.6	−15.6
	14	−10.29	+3.49	−80.2	−10.3
	15	− 6.80	+3.92	−90.5	− 4.4
	16	− 2.88	+4.11	−94.9	+ 2.1
	17	+ 1.23	+4.01	−92.8	+ 8.7
	18	+ 5.24	+3.59	−84.1	+15.1
	19	+ 8.83	+2.87	−69.0	+20.7
	20	+11.70	+1.81	−48.3	+25.0
	21	+13.51	+0.49	−23.3	+27.2
	22	+14.00	−0.97	+ 3.9	+26.7
	23	+13.03	−2.43	+30.6	+23.3
	24	+10.60	−3.65	+53.9	+17.0
	25	+ 6.95		+70.9	

HYPERION.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Okt. 7	$-13^s.15$	$-3^s.00$	$+61''.1$	$-25''.5$
8	−16.15	−1.80	+ 35.6	−28.2
9	−17.95	−0.54	+ 7.4	−28.9
10	−18.49	+0.73	− 21.5	−27.5
11	−17.76	+1.94	− 49.0	−24.2
12	−15.82	+3.02	− 73.2	−19.3
13	−12.80	+3.91	− 92.5	−12.9
14	− 8.89	+4.57	−105.4	− 5.4
15	− 4.32	+4.92	−110.8	+ 3.3
16	+ 0.60	+4.89	−107.5	+12.1
17	+ 5.49	+4.40	− 95.4	+20.6
18	+ 9.89	+3.45	− 74.8	+28.0
19	+13.34	+2.07	− 46.8	+33.2
20	+15.41	+0.36	− 13.6	+34.5
21	+15.77	−1.46	+ 20.9	+32.2
22	+14.31	−3.12	+ 53.1	+26.2
23	+11.19	−4.41	+ 79.3	+17.3
24	+ 6.78	−5.16	+ 96.6	+ 7.0
25	+ 1.62	−5.35	+103.6	− 3.4
26	− 3.73	−5.03	+100.2	−12.8
27	− 8.76	−4.28	+ 87.4	−20.4
28	−13.04	−3.26	+ 67.0	−25.6
29	−16.30	−2.05	+ 41.4	−28.9
30	−18.35	−0.75	+ 12.5	−29.9
31	−19.10	+0.57	− 17.4	−28.7
Nov. 1	−18.53	+1.82	− 46.1	−25.6
2	−16.71	+2.97	− 71.7	−20.9
3	−13.74	+3.92	− 92.6	−14.4
4	− 9.82	+4.65	−107.0	− 6.7
5	− 5.17	+5.05	−113.7	+ 2.1
6	− 0.12	+5.06	−111.6	+11.2
7	+ 4.94	+4.63	−100.4	+20.0
8	+ 9.57	+3.72	− 80.4	+27.7
9	+13.29	+2.34	− 52.7	+33.3
10	+15.63	+0.61	− 19.4	+35.6
11	+16.24	−1.24	+ 16.2	+33.6
12	+15.00	−3.00	+ 49.8	+27.8
13	+12.00	−4.40	+ 77.6	+19.2
14	+ 7.60	−5.22	+ 96.8	+ 8.8
15	+ 2.38	−5.48	+105.6	− 2.0
16	− 3.10	−5.21	+103.6	−11.8
17	− 8.31	−4.50	+ 91.8	−19.9
18	−12.81	−3.48	+ 71.9	−25.6
19	−16.29		+ 46.3	

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Nov. 19	$-16^s.29$	$-2^s.25$	$+46''.3$	$-29''.2$
20	−18.54	−0.93	+ 17.1	−30.4
21	−19.47	+0.42	− 13.3	−29.5
22	−19.05	+1.71	− 42.8	−26.7
23	−17.34	+2.90	− 69.5	−22.0
24	−14.44	+3.90	− 91.5	−15.6
25	−10.54	+4.64	−107.1	− 7.9
26	− 5.90	+5.10	−115.0	+ 0.8
27	− 0.80	+5.16	−114.2	+10.0
28	+ 4.36	+4.78	−104.2	+19.2
29	+ 9.14	+3.90	− 85.0	+27.2
30	+13.04	+2.57	− 57.8	+33.0
Dez. 1	+15.61	+0.86	− 24.8	+35.8
2	+16.47	−1.02	+ 11.0	+34.6
3	+15.45	−2.83	+ 45.6	+29.2
4	+12.62	−4.29	+ 74.8	+20.7
5	+ 8.33	−5.21	+ 95.5	+10.3
6	+ 3.12	−5.54	+105.8	− 0.6
7	− 2.42	−5.32	+105.2	−10.7
8	− 7.74	−4.64	+ 94.5	−19.0
9	−12.38	−3.63	+ 75.5	−25.1
10	−16.01	−2.41	+ 50.4	−28.9
11	−18.42	−1.08	+ 21.5	−30.4
12	−19.50	+0.26	− 8.9	−29.8
13	−19.24	+1.57	− 38.7	−27.2
14	−17.67	+2.76	− 65.9	−22.6
15	−14.91	+3.78	− 88.5	−16.4
16	−11.13	+4.57	−104.9	− 9.0
17	− 6.56	+5.04	−113.9	− 0.7
18	− 1.52	+5.16	−114.6	+ 8.5
19	+ 3.64	+4.84	−106.1	+17.7
20	+ 8.48	+4.03	− 88.4	+25.9
21	+12.51	+2.76	− 62.5	+32.1
22	+15.27	+1.11	− 30.4	+35.4
23	+16.38	−0.76	+ 5.0	+34.8
24	+15.62	−2.58	+ 39.8	+30.0
25	+13.04	−4.07	+ 69.8	+22.1
26	+ 8.97	−5.07	+ 91.9	+11.9
27	+ 3.90	−5.48	+103.8	+ 1.0
28	− 1.58	−5.32	+104.8	− 9.0
29	− 6.90	−4.70	+ 95.8	−17.6
30	−11.60	−3.75	+ 78.2	−23.9
31	−15.35	−2.56	+ 54.3	−28.0
32	−17.91		+ 26.3	

JAPETUS.

0^h	U	B	P	0^h	U	B	P
Jan. 0	8° 51.8'	−15° 57.4'	−14° 54.2'	Okt. 7	29° 47.0'	−14° 29.7'	−13° 22.2'
2	8 45.8	15 58.1	14 54.4	9	29 45.3	14 29.8	13 22.4
4	8 40.1	15 58.8	14 54.6	11	29 43.1	14 29.9	13 22.7
6	8 34.9	15 59.5	14 54.8	13	29 40.5	14 30.1	13 23.0
8	8 30.1	16 0.1	14 54.9	15	29 37.4	14 30.3	13 23.4
10	8 25.7	−16 0.8	−14 55.1	17	29 33.9	−14 30.6	−13 23.8
12	8 21.8	16 1.5	14 55.2	19	29 29.9	14 31.0	13 24.3
14	8 18.3	16 2.2	14 55.3	21	29 25.5	14 31.5	13 24.8
16	8 15.3	16 2.8	14 55.4	23	29 20.8	14 32.0	13 25.4
18	8 12.8	16 3.5	14 55.5	25	29 15.6	14 32.6	13 26.0
20	8 10.6	−16 4.1	−14 55.6	27	29 10.0	−14 33.2	−13 26.7
22	8 8.9	16 4.8	14 55.7	29	29 4.0	14 33.9	13 27.4
24	8 7.7	16 5.4	14 55.8	31	28 57.7	14 34.7	13 28.2
26	8 7.0	16 6.0	14 55.9	Nov. 2	28 51.0	14 35.5	13 29.0
28	8 6.7	16 6.6	14 56.0	4	28 43.9	14 36.4	13 29.9
30	8 6.9	−16 7.2	−14 56.0	6	28 36.5	−14 37.3	−13 30.8
Febr. 1	8 7.6	16 7.8	14 56.0	8	28 28.9	14 38.3	13 31.7
3	8 8.8	16 8.4	14 56.1	10	28 21.0	14 39.3	13 32.7
5	8 10.4	16 8.9	14 56.1	12	28 12.7	14 40.4	13 33.7
7	8 12.5	16 9.4	14 56.1	14	28 4.2	14 41.5	13 34.7
9	8 15.0	−16 9.9	−14 56.1	16	27 55.4	−14 42.6	−13 35.8
11	8 18.0	16 10.3	14 56.1	18	27 46.4	14 43.8	13 36.9
13	8 21.5	16 10.7	14 56.1	20	27 37.1	14 45.0	13 38.0
15	8 25.4	16 11.1	14 56.1	22	27 27.7	14 46.3	13 39.1
17	8 29.8	16 11.5	14 56.0	24	27 18.1	14 47.6	13 40.3
19	8 34.6	−16 11.8	−14 56.0	26	27 8.4	−14 48.9	−13 41.4
21	8 39.9	16 12.1	14 55.9	28	26 58.5	14 50.3	13 42.6
23	8 45.6	16 12.4	14 55.8	30	26 48.5	14 51.7	13 43.7
25	8 51.8	16 12.7	14 55.7	Dez. 2	26 38.5	14 53.1	13 44.9
27	8 58.4	16 13.0	14 55.6	4	26 28.4	14 54.5	13 46.0
März 1	9 5.3	−16 13.2	−14 55.5	6	26 18.3	−14 56.0	−13 47.2
3	9 12.7	16 13.4	14 55.4	8	26 8.1	14 57.4	13 48.3
5	9 20.5	16 13.6	14 55.2	10	25 58.0	14 58.9	13 49.4
7	9 28.7	16 13.7	14 55.0	12	25 47.9	15 0.4	13 50.5
9	9 37.2	16 13.9	14 54.8	14	25 37.8	15 1.8	13 51.6
11	9 46.1	−16 14.0	−14 54.6	16	25 27.8	−15 3.3	−13 52.7
13	9 55.4	16 14.1	14 54.4	18	25 18.0	15 4.7	13 53.7
15	10 5.0	16 14.1	14 54.2	20	25 8.3	15 6.1	13 54.8
17	10 15.0	16 14.2	14 54.0	22	24 58.7	15 7.5	13 55.8
19	10 25.3	16 14.2	14 53.7	24	24 49.3	15 8.9	13 56.8
21	10 36.0	−16 14.2	−14 53.4	26	24 40.2	−15 10.3	−13 57.8
23	10 46.9	16 14.1	14 53.1	28	24 31.3	15 11.6	13 58.8
25	10 58.2	−16 14.1	−14 52.8	30	24 22.6	15 12.9	13 59.8
				32	24 14.2	−15 14.1	−14 0.7

JAPETUS.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan. 0	−24.69 s	+2.63 s	−211.9″	+ 1.0″
1	−22.06	+2.78	−210.9	+ 2.5
2	−19.28	+2.91	−208.4	+ 3.8
3	−16.37	+3.01	−204.6	+ 5.3
4	−13.36	+3.09	−199.3	+ 6.6
5	−10.27	+3.15	−192.7	+ 7.9
6	− 7.12	+3.19	−184.8	+ 9.2
7	− 3.93	+3.20	−175.6	+10.3
8	− 0.73	+3.20	−165.3	+11.4
9	+ 2.47	+3.17	−153.9	+12.4
10	+ 5.64	+3.12	−141.5	+13.3
11	+ 8.76	+3.05	−128.2	+14.0
12	+11.81	+2.96	−114.2	+14.7
13	+14.77	+2.86	− 99.5	+15.4
14	+17.63	+2.73	− 84.1	+15.9
15	+20.36	+2.60	− 68.2	+16.2
16	+22.96	+2.44	− 52.0	+16.5
17	+25.40	+2.28	− 35.5	+16.7
18	+27.68	+2.10	− 18.8	+16.7
19	+29.78	+1.90	− 2.1	+16.7
20	+31.68	+1.69	+ 14.6	+16.6
21	+33.37	+1.49	+ 31.2	+16.4
22	+34.86	+1.27	+ 47.6	+16.0
23	+36.13	+1.05	+ 63.6	+15.5
24	+37.18	+0.83	+ 79.1	+15.0
25	+38.01	+0.60	+ 94.1	+14.5
26	+38.61	+0.37	+108.6	+13.8
27	+38.98	+0.13	+122.4	+12.9
28	+39.11	−0.10	+135.3	+12.1
29	+39.01	−0.32	+147.4	+11.2
30	+38.69	−0.55	+158.6	+10.3
31	+38.14	−0.76	+168.9	+ 9.3
Febr. 1	+37.38	−0.98	+178.2	+ 8.3
2	+36.40	−1.19	+186.5	+ 7.1
3	+35.21	−1.38	+193.6	+ 6.0
4	+33.83	−1.57	+199.6	+ 4.8
5	+32.26	−1.75	+204.4	+ 3.6
6	+30.51	−1.92	+208.0	+ 2.5
7	+28.59	−2.08	+210.5	+ 1.2
8	+26.51	−2.22	+211.7	0.0
9	+24.29	−2.35	+211.7	− 1.2
10	+21.94	−2.47	+210.5	− 2.4
11	+19.47		+208.1	

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Febr. 11	+19.47 s	−2.57 s	+208.1″	− 3.6″
12	+16.90	−2.66	+204.5	− 4.7
13	+14.24	−2.73	+199.8	− 5.9
14	+11.51	−2.78	+193.9	− 7.0
15	+ 8.73	−2.82	+186.9	− 8.0
16	+ 5.91	−2.85	+178.9	− 9.0
17	+ 3.06	−2.86	+169.9	−10.0
18	+ 0.20	−2.84	+159.9	−10.9
19	− 2.64	−2.82	+149.0	−11.7
20	− 5.46	−2.78	+137.3	−12.5
21	− 8.24	−2.71	+124.8	−13.2
22	−10.95	−2.64	+111.6	−13.8
23	−13.59	−2.54	+ 97.8	−14.4
24	−16.13	−2.44	+ 83.4	−14.8
25	−18.57	−2.31	+ 68.6	−15.1
26	−20.88	−2.18	+ 53.5	−15.4
27	−23.06	−2.03	+ 38.1	−15.6
28	−25.09	−1.86	+ 22.5	−15.6
März 1	−26.95	−1.69	+ 6.9	−15.6
2	−28.64	−1.50	− 8.7	−15.6
3	−30.14	−1.30	− 24.3	−15.3
4	−31.44	−1.10	− 39.6	−15.0
5	−32.54	−0.89	− 54.6	−14.6
6	−33.43	−0.67	− 69.2	−14.0
7	−34.10	−0.45	− 83.2	−13.5
8	−34.55	−0.22	− 96.7	−12.8
9	−34.77	0.00	−109.5	−12.0
10	−34.77	+0.23	−121.5	−11.3
11	−34.54	+0.46	−132.8	−10.3
12	−34.08	+0.67	−143.1	− 9.3
13	−33.41	+0.89	−152.4	− 8.3
14	−32.52	+1.10	−160.7	− 7.2
15	−31.42	+1.30	−167.9	− 6.1
16	−30.12	+1.50	−174.0	− 4.9
17	−28.62	+1.68	−178.9	− 3.8
18	−26.94	+1.85	−182.7	− 2.5
19	−25.09	+2.01	−185.2	− 1.3
20	−23.08	+2.15	−186.5	0.0
21	−20.93	+2.28	−186.5	+ 1.2
22	−18.65	+2.39	−185.3	+ 2.3
23	−16.26	+2.49	−183.0	+ 3.5
24	−13.77	+2.57	−179.5	+ 4.7
25	−11.20		−174.8	

JAPETUS.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Okt. 7	+32.70	−1.93	+192.9	+ 2.9
8	+30.77	−2.13	+195.8	+ 1.8
9	+28.64	−2.31	+197.6	+ 0.7
10	+26.33	−2.47	+198.3	− 0.6
11	+23.86	−2.63	+197.7	− 1.8
12	+21.23	−2.77	+195.9	− 2.9
13	+18.46	−2.89	+193.0	− 4.1
14	+15.57	−2.99	+188.9	− 5.3
15	+12.58	−3.08	+183.6	− 6.4
16	+ 9.50	−3.15	+177.2	− 7.6
17	+ 6.35	−3.20	+169.6	− 8.7
18	+ 3.15	−3.24	+160.9	− 9.6
19	− 0.09	−3.25	+151.3	−10.6
20	− 3.34	−3.23	+140.7	−11.6
21	− 6.57	−3.20	+129.1	−12.5
22	− 9.77	−3.15	+116.6	−13.2
23	−12.92	−3.07	+103.4	−14.0
24	−15.99	−2.98	+ 89.4	−14.6
25	−18.97	−2.86	+ 74.8	−15.2
26	−21.83	−2.73	+ 59.6	−15.6
27	−24.56	−2.57	+ 44.0	−16.0
28	−27.13	−2.39	+ 28.0	−16.2
29	−29.52	−2.20	+ 11.8	−16.3
30	−31.72	−1.98	− 4.5	−16.4
31	−33.70	−1.76	− 20.9	−16.3
Nov. 1	−35.46	−1.52	− 37.2	−16.1
2	−36.98	−1.26	− 53.3	−15.8
3	−38.24	−1.00	− 69.1	−15.3
4	−39.24	−0.73	− 84.4	−14.8
5	−39.97	−0.45	− 99.2	−14.2
6	−40.42	−0.16	−113.4	−13.4
7	−40.58	+0.12	−126.8	−12.5
8	−40.46	+0.41	−139.3	−11.6
9	−40.05	+0.69	−150.9	−10.6
10	−39.36	+0.97	−161.5	− 9.4
11	−38.39	+1.24	−170.9	− 8.3
12	−37.15	+1.51	−179.2	− 7.1
13	−35.64	+1.76	−186.3	− 5.7
14	−33.88	+2.01	−192.0	− 4.4
15	−31.87	+2.23	−196.4	− 3.0
16	−29.64	+2.44	−199.4	− 1.7
17	−27.20	+2.64	−201.1	− 0.2
18	−24.56	+2.81	−201.3	+ 1.2
19	−21.75		−200.1	

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Nov. 19	−21.75	+2.97	−200.1	+ 2.5
20	−18.78	+3.09	−197.6	+ 3.9
21	−15.69	+3.21	−193.7	+ 5.3
22	−12.48	+3.30	−188.4	+ 6.6
23	− 9.18	+3.37	−181.8	+ 7.8
24	− 5.81	+3.41	−174.0	+ 9.0
25	− 2.40	+3.42	−165.0	+10.1
26	+ 1.02	+3.42	−154.9	+11.2
27	+ 4.44	+3.40	−143.7	+12.1
28	+ 7.84	+3.35	−131.6	+13.1
29	+11.19	+3.27	−128.5	+13.9
30	+14.46	+3.19	−104.6	+14.6
Dez. 1	+17.65	+3.07	− 90.0	+15.2
2	+20.72	+2.94	− 74.8	+15.7
3	+23.66	+2.79	− 59.1	+16.1
4	+26.45	+2.62	− 43.0	+16.4
5	+29.07	+2.44	− 26.6	+16.7
6	+31.51	+2.24	− 9.9	+16.7
7	+33.75	+2.04	+ 6.8	+16.7
8	+35.79	+1.81	+ 23.5	+16.6
9	+37.60	+1.58	+ 40.1	+16.3
10	+39.18	+1.33	+ 56.4	+16.0
11	+40.51	+1.09	+ 72.4	+15.6
12	+41.60	+0.83	+ 88.0	+15.1
13	+42.43	+0.58	+103.1	+14.5
14	+43.01	+0.31	+117.6	+13.8
15	+43.32	+0.06	+131.4	+13.1
16	+43.38	−0.21	+144.5	+12.2
17	+43.17	−0.48	+156.7	+11.2
18	+42.69	−0.73	+167.9	+10.2
19	+41.96	−0.98	+178.1	+ 9.2
20	+40.98	−1.23	+187.3	+ 8.1
21	+39.75	−1.47	+195.4	+ 6.8
22	+38.28	−1.70	+202.2	+ 5.6
23	+36.58	−1.92	+207.8	+ 4.4
24	+34.66	−2.12	+212.2	+ 3.1
25	+32.54	−2.32	+215.3	+ 1.8
26	+30.22	−2.50	+217.1	+ 0.5
27	+27.72	−2.66	+217.6	− 0.8
28	+25.06	−2.81	+216.8	− 2.1
29	+22.25	−2.94	+214.7	− 3.5
30	+19.31	−3.06	+211.2	− 4.8
31	+16.25	−3.15	+206.4	− 6.0
32	+13.10		+200.4	

Elongationen.

MIMAS.

		h				h				h				h	
Jan.	0	0.7	O.	Jan.	20	7.0	W.	Febr.	9	13.3	O.	März	1	19.7	W.
	0	12.0	W.		20	18.3	O.		10	0.6	W.		2	7.0	O.
	0	23.4	O.		21	5.6	W.		10	11.9	O.		2	18.3	W.
	1	10.7	W.		21	16.9	O.		10	23.2	W.		3	5.6	O.
	1	22.0	O.		22	4.3	W.		11	10.5	O.		3	17.0	W.
	2	9.3	W.		22	15.6	O.		11	21.9	W.		4	4.3	O.
	2	20.6	O.		23	2.9	W.		12	9.2	O.		4	15.6	W.
	3	7.9	W.		23	14.2	O.		12	20.5	W.		5	2.9	O.
	3	19.2	O.		24	1.5	W.		13	7.8	O.		5	14.2	W.
	4	6.5	W.		24	12.8	O.		13	19.1	W.		6	1.5	O.
	4	17.8	O.		25	0.1	W.		14	6.4	O.		6	12.8	W.
	5	5.1	W.		25	11.4	O.		14	17.7	W.		7	0.1	O.
	5	16.4	O.		25	22.7	W.		15	5.0	O.		7	11.4	W.
	6	3.7	W.		26	10.0	O.		15	16.4	W.		7	22.8	O.
	6	15.1	O.		26	21.3	W.		16	3.7	O.		8	10.1	W.
	7	2.4	W.		27	8.7	O.		16	15.0	W.		8	21.4	O.
	7	13.7	O.		27	20.0	W.		17	2.3	O.		9	8.7	W.
	8	1.0	W.		28	7.3	O.		17	13.6	W.		9	20.0	O.
	8	12.3	O.		28	18.6	W.		18	0.9	O.		10	7.3	W.
	8	23.6	W.		29	5.9	O.		18	12.2	W.		10	18.6	O.
	9	10.9	O.		29	17.2	W.		18	23.5	O.		11	5.9	W.
	9	22.2	W.		30	4.5	O.		19	10.8	W.		11	17.3	O.
	10	9.5	O.		30	15.8	W.		19	22.2	O.		12	4.6	W.
	10	20.8	W.		31	3.1	O.		20	9.5	W.		12	15.9	O.
	11	8.2	O.		31	14.4	W.		20	20.8	O.		13	3.2	W.
	11	19.5	W.	Febr.	1	1.7	O.		21	8.1	W.		13	14.5	O.
	12	6.8	O.		1	13.1	W.		21	19.4	O.		14	1.8	W.
	12	18.1	W.		2	0.4	O.		22	6.7	W.		14	13.1	O.
	13	5.4	O.		2	11.7	W.		22	18.0	O.		15	0.4	W.
	13	16.7	W.		2	23.0	O.		23	5.3	W.		15	11.7	O.
	14	4.0	O.		3	10.3	W.		23	16.7	O.		15	23.1	W.
	14	15.3	W.		3	21.6	O.		24	4.0	W.		16	10.4	O.
	15	2.6	O.		4	8.9	W.		24	15.3	O.		16	21.7	W.
	15	13.9	W.		4	20.2	O.		25	2.6	W.		17	9.0	O.
	16	1.2	O.		5	7.5	W.		25	13.9	O.		17	20.3	W.
	16	12.6	W.		5	18.8	O.		26	1.2	W.		18	7.6	O.
	16	23.9	O.		6	6.1	W.		26	12.5	O.		18	18.9	W.
	17	11.2	W.		6	17.4	O.		26	23.8	W.		19	6.2	O.
	17	22.5	O.		7	4.8	W.		27	11.1	O.		19	17.6	W.
	18	9.8	W.		7	16.1	O.		27	22.5	W.		20	4.9	O.
	18	21.1	O.		8	3.4	W.		28	9.8	O.		20	16.2	W.
	19	8.4	W.		8	14.7	O.		28	21.1	W.		21	3.5	O.
	19	19.7	O.		9	2.0	W.	März	1	8.4	O.		21	14.8	W.

Elongationen.

MIMAS (Fortsetzung).

Datum	h		Datum	h		Datum	h		Datum	h	
März 22	2.1	O.	Okt. 21	2.9	O.	Nov. 10	9.0	W.	Nov. 30	15.2	O.
22	13.4	W.	21	14.2	W.	10	20.3	O.	Dez. 1	2.5	W.
23	0.7	O.	22	1.5	O.	11	7.6	W.	1	13.8	O.
23	12.0	W.	22	12.8	W.	11	18.9	O.	2	1.1	W.
23	23.4	O.	23	0.1	O.	12	6.2	W.	2	12.4	O.
24	10.7	W.	23	11.4	W.	12	17.5	O.	2	23.7	W.
24	22.0	O.	23	22.7	O.	13	4.9	W.	3	11.0	O.
25	9.3	W.	24	10.0	W.	13	16.2	O.	3	22.3	W.
25	20.6	O.	24	21.3	O.	14	3.5	W.	4	9.6	O.
			25	8.6	W.	14	14.8	O.	4	20.9	W.
			25	19.9	O.	15	2.1	W.	5	8.2	O.
			26	7.2	W.	15	13.4	O.	5	19.5	W.
			26	18.5	O.	16	0.7	W.	6	6.8	O.
			27	5.8	W.	16	12.0	O.	6	18.1	W.
Okt. 7	11.0	W.	27	17.1	O.	16	23.3	W.	7	5.5	O.
7	22.3	O.	28	4.5	W.	17	10.6	O.	7	16.8	W.
8	9.6	W.	28	15.8	O.	17	21.9	W.	8	4.1	O.
8	20.9	O.	29	3.1	W.	18	9.2	O.	8	15.4	W.
9	8.2	W.	29	14.4	O.	18	20.5	W.	9	2.7	O.
9	19.5	O.	30	1.7	W.	19	7.8	O.	9	14.0	W.
10	6.8	W.	30	13.0	O.	19	19.1	W.	10	1.3	O.
10	18.1	O.	31	0.3	W.	20	6.4	O.	10	12.6	W.
11	5.4	W.	31	11.6	O.	20	17.7	W.	10	23.9	O.
11	16.7	O.	31	22.9	W.	21	5.1	O.	11	11.2	W.
12	4.1	W.	Nov. 1	10.2	O.	21	16.4	W.	11	22.5	O.
12	15.4	O.	1	21.5	W.	22	3.7	O.	12	9.8	W.
13	2.7	W.	2	8.8	O.	22	15.0	W.	12	21.1	O.
13	14.0	O.	2	20.1	W.	23	2.3	O.	13	8.4	W.
14	1.3	W.	3	7.4	O.	23	13.6	W.	13	19.8	O.
14	12.6	O.	3	18.7	W.	24	0.9	O.	14	7.1	W.
14	23.9	W.	4	6.0	O.	24	12.2	W.	14	18.4	O.
15	11.2	O.	4	17.3	W.	24	23.5	O.	15	5.7	W.
15	22.5	W.	5	4.7	O.	25	10.8	W.	15	17.0	O.
16	9.8	O.	5	16.0	W.	25	22.1	O.	16	4.3	W.
16	21.1	W.	6	3.3	O.	26	9.4	W.	16	15.6	O.
17	8.4	O.	6	14.6	W.	26	20.7	O.	17	2.9	W.
17	19.7	W.	7	1.9	O.	27	8.0	W.	17	14.2	O.
18	7.0	O.	7	13.2	W.	27	19.3	O.	18	1.5	W.
18	18.3	W.	8	0.5	O.	28	6.6	W.	18	12.8	O.
19	5.6	O.	8	11.8	W.	28	17.9	O.	19	0.1	W.
19	16.9	W.	8	23.1	O.	29	5.3	W.	19	11.5	O.
20	4.3	O.	9	10.4	W.	29	16.6	O.	19	22.8	W.
20	15.6	W.	9	21.7	O.	30	3.9	W.	20	10.1	O.

Elongationen.

MIMAS (Fortsetzung).

	h			h			h			h	
Dez. 20	21.4	W.	Dez. 24	4.5	O.	Dez. 27	11.7	W.	Dez. 30	18.8	O.
21	8.7	O.	24	15.9	W.	27	23.0	O.	31	6.2	W.
21	20.0	W.	25	3.2	O.	28	10.3	W.	31	17.5	O.
22	7.3	O.	25	14.5	W.	28	21.6	O.	32	4.8	W.
22	18.6	W.	26	1.8	O.	29	8.9	W.	32	16.1	O.
23	5.9	O.	26	13.1	W.	29	20.2	O.	33	3.4	W.
23	17.2	W.	27	0.4	O.	30	7.5	W.	33	14.7	O.

ENCELADUS.

	h			h			h			h	
Jan. 0	10.0	W.	Jan. 21	15.6	O.	Febr. 11	21.4	W.	März 5	3.3	O.
1	2.5	O.	22	8.1	W.	12	13.8	O.	5	19.7	W.
1	18.9	W.	23	0.5	O.	13	6.3	W.	6	12.1	O.
2	11.3	O.	23	17.0	W.	13	22.7	O.	7	4.6	W.
3	3.8	W.	24	9.4	O.	14	15.2	W.	7	21.0	O.
3	20.2	O.	25	1.8	W.	15	7.6	O.	8	13.5	W.
4	12.7	W.	25	18.3	O.	16	0.1	W.	9	5.9	O.
5	5.1	O.	26	10.7	W.	16	16.5	O.	9	22.4	W.
5	21.6	W.	27	3.2	O.	17	9.0	W.	10	14.8	O.
6	14.0	O.	27	19.6	W.	18	1.4	O.	11	7.3	W.
7	6.5	W.	28	12.1	O.	18	17.9	W.	11	23.7	O.
7	22.9	O.	29	4.5	W.	19	10.3	O.	12	16.2	W.
8	15.3	W.	29	20.9	O.	20	2.8	W.	13	8.6	O.
9	7.7	O.	30	13.4	W.	20	19.2	O.	14	1.1	W.
10	0.1	W.	31	5.8	O.	21	11.7	W.	14	17.5	O.
10	16.6	O.	31	22.3	W.	22	4.1	O.	15	10.0	W.
11	9.0	W.	Febr. 1	14.7	O.	22	20.6	W.	16	2.4	O.
12	1.5	O.	2	7.1	W.	23	13.0	O.	16	18.9	W.
12	17.9	W.	2	23.6	O.	24	5.5	W.	17	11.3	O.
13	10.3	O.	3	16.0	W.	24	21.9	O.	18	3.8	W.
14	2.8	W.	4	8.5	O.	25	14.4	W.	18	20.2	O.
14	19.2	O.	5	0.9	W.	26	6.8	O.	19	12.7	W.
15	11.7	W.	5	17.4	O.	26	23.2	W.	20	5.1	O.
16	4.1	O.	6	9.8	W.	27	15.7	O.	20	21.6	W.
16	20.6	W.	7	2.2	O.	28	8.1	W.	21	14.1	O.
17	13.0	O.	7	18.7	W.	März 1	0.6	O.	22	6.5	W.
18	5.4	W.	8	11.1	O.	1	17.0	W.	22	23.0	O.
18	21.9	O.	9	3.6	W.	2	9.5	O.	23	15.4	W.
19	14.3	W.	9	20.0	O.	3	1.9	W.	24	7.9	O.
20	6.8	O.	10	12.5	W.	3	18.4	O.	25	0.3	W.
20	23.2	W.	11	4.9	O.	4	10.8	W.	25	16.8	O.

Elongationen.

ENCELADUS (Fortsetzung).

	h			h			h			h	
Okt. 7	0.6	W.	Okt. 28	6.2	O.	Nov. 18	11.8	W.	Dez. 9	17.3	O.
7	17.0	O.	28	22.7	W.	19	4.2	O.	10	9.8	W.
8	9.4	W.	29	15.1	O.	19	20.6	W.	11	2.2	O.
9	1.9	O.	30	7.5	W.	20	13.1	O.	11	18.6	W.
9	18.3	W.	31	0.0	O.	21	5.5	W.	12	11.1	O.
10	10.8	O.	31	16.4	W.	21	22.0	O.	13	3.5	W.
11	3.2	W.	Nov. 1	8.8	O.	22	14.4	W.	13	19.9	O.
11	19.7	O.	2	1.3	W.	23	6.8	O.	14	12.4	W.
12	12.1	W.	2	17.7	O.	23	23.3	W.	15	4.8	O.
13	4.5	O.	3	10.1	W.	24	15.7	O.	15	21.3	W.
13	21.0	W.	4	2.6	O.	25	8.1	W.	16	13.7	O.
14	13.4	O.	4	19.0	W.	26	0.6	O.	17	6.1	W.
15	5.9	W.	5	11.5	O.	26	17.0	W.	17	22.6	O.
15	22.3	O.	6	3.9	W.	27	9.5	O.	18	15.0	W.
16	14.7	W.	6	20.3	O.	28	1.9	W.	19	7.4	O.
17	7.2	O.	7	12.8	W.	28	18.3	O.	19	23.9	W.
17	23.6	W.	8	5.1	O.	29	10.8	W.	20	16.3	O.
18	16.1	O.	8	21.6	W.	30	3.2	O.	21	8.7	W.
19	8.5	W.	9	14.1	O.	30	19.6	W.	22	1.2	O.
20	1.0	O.	10	6.5	W.	Dez. 1	12.1	O.	22	17.6	W.
20	17.4	W.	10	23.0	O.	2	4.5	W.	23	10.1	O.
21	9.8	O.	11	15.4	W.	2	21.0	O.	24	2.5	W.
22	2.3	W.	12	7.8	O.	3	13.4	W.	24	18.9	O.
22	18.7	O.	13	0.3	W.	4	5.8	O.	25	11.4	W.
23	11.2	W.	13	16.7	O.	4	22.3	W.	26	3.8	O.
24	3.6	O.	14	9.1	W.	5	14.7	O.	26	20.2	W.
24	20.0	W.	15	1.6	O.	6	7.1	W.	27	12.7	O.
25	12.5	O.	15	18.0	W.	6	23.6	O.	28	5.1	W.
26	4.9	W.	16	10.5	O.	7	16.0	W.	28	21.5	O.
26	21.3	O.	17	2.9	W.	8	8.5	O.	29	14.0	W.
27	13.8	W.	17	19.3	O.	9	0.9	W.	30	6.4	O.
									30	22.8	W.
									31	15.3	O.

TETHYS.

	h			h			h			h	
Jan. 0	16.9	O.	Jan. 5	10.1	W.	Jan. 10	3.5	O.	Jan. 14	20.8	W.
1	15.5	W.	6	8.8	O.	11	2.2	W.	15	19.4	O.
2	14.2	O.	7	7.5	W.	12	0.8	O.	16	18.1	W.
3	12.8	W.	8	6.2	O.	12	23.5	W.	17	16.7	O.
4	11.5	O.	9	4.9	W.	13	22.1	O.	18	15.4	W.

Elongationen.

TETHYS (Fortsetzung).

Datum	h		Datum	h		Datum	h		Datum	h	
Jan. 19	14.0	O.	Febr. 28	5.6	O.	Okt. 16	15.8	O.	Nov. 25	6.8	O.
20	12.7	W.	März 1	4.3	W.	17	14.5	W.	26	5.4	W.
21	11.3	O.	2	3.0	O.	18	13.1	O.	27	4.1	O.
22	10.0	W.	3	1.6	W.	19	11.8	W.	28	2.7	W.
23	8.6	O.	4	0.3	O.	20	10.4	O.	29	1.4	O.
24	7.3	W.	4	22.9	W.	21	9.1	W.	30	0.0	W.
25	5.9	O.	5	21.6	O.	22	7.7	O.	30	22.7	O.
26	4.6	W.	6	20.3	W.	23	6.4	W.	Dez. 1	21.3	W.
27	3.2	O.	7	18.9	O.	24	5.0	O.	2	20.0	O.
28	1.9	W.	8	17.6	W.	25	3.6	W.	3	18.6	W.
29	0.5	O.	9	16.3	O.	26	2.3	O.	4	17.2	O.
29	23.2	W.	10	14.9	W.	27	0.9	W.	5	15.9	W.
30	21.8	O.	11	13.6	O.	27	23.6	O.	6	14.5	O.
31	20.5	W.	12	12.2	W.	28	22.2	W.	7	13.2	W.
Febr. 1	19.1	O.	13	10.9	O.	29	20.9	O.	8	11.8	O.
2	17.8	W.	14	9.6	W.	30	19.5	W.	9	10.5	W.
3	16.4	O.	15	8.2	O.	31	18.1	O.	10	9.1	O.
4	15.1	W.	16	6.9	W.	Nov. 1	16.7	W.	11	7.7	W.
5	13.7	O.	17	5.5	O.	2	15.3	O.	12	6.4	O.
6	12.4	W.	18	4.2	W.	3	14.0	W.	13	5.0	W.
7	11.0	O.	19	2.9	O.	4	12.6	O.	14	3.7	O.
8	9.7	W.	20	1.5	W.	5	11.3	W.	15	2.3	W.
9	8.3	O.	21	0.2	O.	6	9.9	O.	16	1.0	O.
10	7.0	W.	21	22.9	W.	7	8.6	W.	16	23.6	W.
11	5.6	O.	22	21.5	O.	8	7.2	O.	17	22.3	O.
12	4.3	W.	23	20.2	W.	9	5.8	W.	18	20.9	W.
13	3.0	O.	24	18.8	O.	10	4.5	O.	19	19.5	O.
14	1.6	W.	25	17.5	W.	11	3.1	W.	20	18.2	W.
15	0.3	O.				12	1.8	O.	21	16.8	O.
15	23.0	W.				13	0.4	W.	22	15.5	W.
16	21.6	O.				13	23.1	O.	23	14.1	O.
17	20.3	W.				14	21.7	W.	24	12.8	W.
18	19.0	O.	Okt. 7	5.3	O.	15	20.4	O.	25	11.4	O.
19	17.6	W.	8	4.0	W.	16	19.0	W.	26	10.1	W.
20	16.3	O.	9	2.6	O.	17	17.6	O.	27	8.7	O.
21	15.0	W.	10	1.3	W.	18	16.3	W.	28	7.3	W.
22	13.6	O.	10	23.9	O.	19	14.9	O.	29	6.0	O.
23	12.3	W.	11	22.6	W.	20	13.6	W.	30	4.6	W.
24	11.0	O.	12	21.2	O.	21	12.2	O.	31	3.3	O.
25	9.6	W.	13	19.9	W.	22	10.9	W.	32	1.9	W.
26	8.3	O.	14	18.5	O.	23	9.5	O.			
27	7.0	W.	15	17.2	W.	24	8.2	W.			

Elongationen.

DIONE.

	h			h			h			h	
Jan. 0	6.8	O.	Febr. 14	10.7	W.	Okt. 7	23.8	W.	Nov. 22	3.0	O.
1	15.7	W.	15	19.5	O.	9	8.6	O.	23	11.9	W.
3	0.5	O.	17	4.4	W.	10	17.4	W.	24	20.7	O.
4	9.4	W.	18	13.2	O.	12	2.3	O.	26	5.5	W.
5	18.2	O.	19	22.1	W.	13	11.1	W.	27	14.3	O.
7	3.1	W.	21	7.0	O.	14	19.9	O.	28	23.1	W.
8	11.9	O.	22	15.8	W.	16	4.8	W.	30	8.0	O.
9	20.7	W.	24	0.7	O.	17	13.6	O.	Dez. 1	16.8	W.
11	5.6	O.	25	9.5	W.	18	22.4	W.	3	1.6	O.
12	14.4	W.	26	18.4	O.	20	7.3	O.	4	10.4	W.
13	23.2	O.	28	3.3	W.	21	16.1	W.	5	19.2	O.
15	8.1	W.	März 1	12.1	O.	23	0.9	O.	7	4.0	W.
16	16.9	O.	2	21.0	W.	24	9.8	W.	8	12.9	O.
18	1.7	W.	4	5.8	O.	25	18.6	O.	9	21.7	W.
19	10.6	O.	5	14.7	W.	27	3.4	W.	11	6.5	O.
20	19.4	W.	6	23.5	O.	28	12.2	O.	12	15.3	W.
22	4.2	O.	8	8.4	W.	29	21.1	W.	14	0.1	O.
23	13.1	W.	9	17.3	O.	31	5.9	O.	15	9.0	W.
24	21.9	O.	11	2.1	W.	Nov. 1	14.7	W.	16	17.8	O.
26	6.7	W.	12	11.0	O.	2	23.5	O.	18	2.6	W.
27	15.6	O.	13	19.8	W.	4	8.3	W.	19	11.4	O.
29	0.4	W.	15	4.7	O.	5	17.2	O.	20	20.3	W.
30	9.3	O.	16	13.6	W.	7	2.0	W.	22	5.1	O.
31	18.1	W.	17	22.4	O.	8	10.8	O.	23	13.9	W.
Febr. 2	3.0	O.	19	7.3	W.	9	19.6	W.	24	22.7	O.
3	11.8	W.	20	16.2	O.	11	4.4	O.	26	7.6	W.
4	20.7	O.	22	1.0	W.	12	13.3	W.	27	16.4	O.
6	5.5	W.	23	9.9	O.	13	22.1	O.	29	1.2	W.
7	14.4	O.	24	18.8	W.	15	6.9	W.	30	10.0	O.
8	23.2	W.	26	3.6	O.	16	15.7	O.	31	18.8	W.
10	8.1	O.				18	0.6	W.			
11	17.0	W.				19	9.4	O.			
13	1.8	O.				20	18.2	W.			

RHEA.

	h			h			h			h	
Jan. 0	12.9	O.	Jan. 16	8.2	W.	Febr. 1	3.6	O.	Febr. 16	23.2	W.
2	19.1	W.	18	14.4	O.	3	9.8	W.	19	5.5	O.
5	1.3	O.	20	20.6	W.	5	16.1	O.	21	11.7	W.
7	7.4	W.	23	2.8	O.	7	22.3	W.	23	18.0	O.
9	13.6	O.	25	9.0	W.	10	4.5	O.	26	0.2	W.
11	19.8	W.	27	15.2	O.	12	10.7	W.	28	6.5	O.
14	2.0	O.	29	21.4	W.	14	17.0	O.	März 2	12.8	W.

Elongationen.

RHEA (Fortsetzung).

		h				h				h				h	
März	4	19.0	O.	Okt.	7	21.6	O.	Nov.	6	5.9	W.	Dez.	5	13.9	O.
	7	1.3	W.		10	3.8	W.		8	12.1	O.		7	20.1	W.
	9	7.6	O.		12	10.0	O.		10	18.3	W.		10	2.2	O.
	11	13.8	W.		14	16.2	W.		13	0.4	O.		12	8.4	W.
	13	20.1	O.		16	22.4	O.		15	6.6	W.		14	14.5	O.
	16	2.3	W.		19	4.6	W.		17	12.7	O.		16	20.7	W.
	18	8.6	O.		21	10.8	O.		19	18.9	W.		19	2.8	O.
	20	14.8	W.		23	17.0	W.		22	1.1	O.		21	9.0	W.
	22	21.1	O.		25	23.2	O.		24	7.2	W.		23	15.2	O.
	25	3.3	W.		28	5.3	W.		26	13.4	O.		25	21.3	W.
	27	9.6	O.		30	11.5	O.		28	19.5	W.		28	3.5	O.
	29	15.8	W.	Nov.	1	17.6	W.	Dez.	1	1.7	O.		30	9.6	W.
	31	22.1	O.		3	23.8	O.		3	7.8	W.		32	15.8	O.

TITAN.

		h				h				h				h	
Jan.	6	3.0	W.	Febr.	22	23.2	W.	Okt.	13	8.9	O.	Nov.	30	1.8	O.
	14	6.2	O.	März	3	3.4	O.		21	2.0	W.	Dez.	7	18.4	W.
	22	1.2	W.		10	23.0	W.		29	6.8	O.		15	22.7	O.
	30	4.7	O.		19	3.5	O.	Nov.	5	23.8	W.		23	15.7	W.
Febr.	7	0.0	W.						14	4.4	O.		31	19.9	O.
	15	3.8	O.						21	21.2	W.				

HYPERION.

		h				h				h				h	
Jan.	5	12.0	W.	Febr.	17	3.0	W.	Okt.	9	22.9	W.	Nov.	21	5.4	W.
	17	6.0	O.		28	20.3	O.		20	21.7	O.	Dez.	2	4.1	O.
	26	19.0	W.	März	10	11.8	W.		31	2.5	W.		12	8.3	W.
Febr.	7	12.8	O.		22	4.2	O.	Nov.	11	1.0	O.		23	7.6	O.

Elongationen und Konjunktionen.

JAPETUS.

		h				h	
Jan.	9	3.1	Obere Konjunktion	Okt.	19	18.6	Untere Konjunktion
	29	3.4	Östliche Elongation	Nov.	7	19.4	Westliche Elongation
Febr.	19	2.3	Untere Konjunktion		26	12.2	Obere Konjunktion
März	10	22.0	Westliche Elongation	Dez.	16	10.9	Östliche Elongation

Jan.	5	8^h	♂ ☌ ☾
	5	16	♃ ☌ ☾
	10	23	♀ ☌ ☾
	13	10	♂ ☌ ♃, ♂ 0° 47′ südl.
	14	21	♆ ☍ ☉
	17	20	♄ ☌ ☾
	23	15	♅ ☌ ☉
	25	9	♂ ☌ σ Sagittar., ♂ 2° 45′ nördl.
Febr.	2	10	♃ ☌ ☾
	3	8	♂ ☌ ☾
	10	1	♀ ☌ ☾
	12	3	♀ gr. östl. Elong., 46° 41′
	12	12	☿ obere ☌ ☉
	14	4	♄ ☌ ☾
März	2	1	♃ ☌ ☾
	4	10	♂ ☌ ☾
	9	4	☿ ☌ ☾
	10	20	☿ gr. östl. Elong., 18° 19′
	11	9	♀ ☌ ☾
	13	13	♄ ☌ ☾
	19	6	♀ im gröſsten Glanz
	27	16	☿ untere ☌ ☉
	29	15	♃ ☌ ☾
April	2	14	♂ ☌ ☾
	8	6	♀ ☌ ☾
	10	0	♄ ☌ ☾
	24	15	♀ untere ☌ ☉
	24	18	☿ gr. westl. Elong., 27° 12′
	26	3	♃ ☌ ☾
Mai	1	21	♂ ☌ ☾
	3	21	☿ ☌ ☾
	4	13	♀ ☌ ☾
	7	11	♄ ☌ ☾
	23	11	♃ ☌ ☾
	29	2	♄ ☌ ☉
	30	1	♀ im gröſsten Glanz
	31	3	♂ ☌ ☾
Juni	1	5	♀ ☌ ☾
	1	12	☿ obere ☌ ☉
	4	1	♄ ☌ ☾
	19	15	♃ ☌ ☾
	29	6	♂ ☌ ☾
	30	8	♀ ☌ ☾
Juli	1	16	♄ ☌ ☾
	3	17	♀ gr. westl. Elong., 45° 44′
	5	4	♃ ☍ ☉
	5	15	☿ ☌ ☾
	7	4	☿ gr. östl. Elong., 26° 12′
Juli	16	16^h	♃ ☌ ☾
	16	20	♀ ☌ α Tauri, ♀ 2° 27′ nördl.
	18	14	♆ ☌ ☉
	21	14	♀ ☌ ♄, ♀ 1° 18′ südl.
	28	4	♂ ☌ ☾
	28	21	♅ ☍ ☉
	29	7	♄ ☌ ☾
	29	20	♀ ☌ ☾
Aug.	4	0	☿ untere ☌ ☉
	12	17	♃ ☌ ☾
	22	2	☿ gr. westl. Elong., 18° 25′
	24	7	♂ ☌ ♄, ♂ 1° 10′ nördl.
	25	20	♄ ☌ ☾
	25	21	♂ ☌ ☾
	28	13	♀ ☌ ☾
	30	7	☿ ☌ ☾
Sept.	3	1	☿ ☌ α Leonis, ☿ 1° 9′ nördl.
	8	22	♃ ☌ ☾
	16	4	☿ obere ☌ ☉
	22	5	♄ ☌ ☾
	23	9	♂ ☌ ☾
	25	0	♀ ☌ α Leonis, ♀ 0° 17′ nördl.
	27	10	♀ ☌ ☾
Okt.	6	7	♃ ☌ ☾
	19	10	♄ ☌ ☾
	21	14	♂ ☌ ☾
	27	9	♀ ☌ ☾
	30	21	☿ ☌ ☾
	31	16	☿ ☌ δ Scorpii, ☿ 0° 51′ südl.
Nov.	1	17	☿ gr. östl. Elong., 23° 34′
	2	22	♃ ☌ ☾
	9	5	☿ ☌ α Scorpii, ☿ 2° 0′ nördl.
	15	13	♄ ☌ ☾
	18	8	♂ ☌ ☾
	22	18	☿ untere ☌ ☉
	26	8	♀ ☌ ☾
	27	0	☿ ☌ ☾
	30	17	♃ ☌ ☾
Dez.	2	9	☿ ☌ ♀, ☿ 1° 35′ nördl.
	6	22	♄ ☍ ☉
	8	12	♀ ☌ δ Scorpii, ♀ 2° 57′ nördl.
	9	12	♀ ☌ β Scorpii, ♀ 0° 9′ südl.
	10	13	☿ gr. westl. Elong., 21° 1′
	12	17	♄ ☌ ☾
	14	11	☿ ☌ β Scorpii, ☿ 0° 52′ nördl.
	15	11	♂ ☌ ☾
	26	7	♀ ☌ ☾
	28	14	♃ ☌ ☾

Zur Berechnung der physischen Mondlibration 1913.

12^h	M	M'	ω	12^h	M	M'	ω
Jan. 0	54°.8	358°.6	135°.6	Juli 9	17°.1	185°.8	166°.8
10	185.4	8.4	137.2	19	147.8	195.7	168.5
20	316.1	18.3	138.9	29	278.4	205.5	170.1
30	86.7	28.1	140.5	Aug. 8	49.1	215.4	171.7
Febr. 9	217.4	38.0	142.2	18	179.7	225.3	173.4
19	348.0	47.8	143.8	28	310.4	235.1	175.0
März 1	118.7	57.7	145.5	Sept. 7	81.0	245.0	176.7
11	249.3	67.6	147.1	17	211.7	254.8	178.3
21	20.0	77.4	148.7	27	342.3	264.7	180.0
31	150.6	87.3	150.4	Okt. 7	113.0	274.5	181.6
April 10	281.3	97.1	152.0	17	243.6	284.4	183.3
20	51.9	107.0	153.7	27	14.3	294.2	184.9
30	182.6	116.8	155.3	Nov. 6	144.9	304.1	186.5
Mai 10	313.2	126.7	157.0	16	275.6	314.0	188.2
20	83.9	136.5	158.6	26	46.2	323.8	189.8
30	214.5	146.4	160.2	Dez. 6	176.9	333.7	191.5
Juni 9	345.2	156.3	161.9	16	307.5	343.5	193.1
19	115.8	166.1	163.5	26	78.2	353.4	194.8
29	246.5	176.0	165.2	36	208.8	3.2	196.4

Bewegung von M			
1ᵈ	13°.1	6ᵈ	78°.4
2	26.1	7	91.5
3	39.2	8	104.5
4	52.3	9	117.6
5	65.3	10	130.6
1ʰ	0°.5	13ʰ	7°.1
2	1.1	14	7.6
3	1.6	15	8.2
4	2.2	16	8.7
5	2.7	17	9.3
6	3.3	18	9.8
7	3.8	19	10.3
8	4.4	20	10.9
9	4.9	21	11.4
10	5.4	22	12.0
11	6.0	23	12.5
12	6.5	24	13.1

M = Mittlere Anomalie des Mondes.

M' = Mittlere Anomalie der Sonne.

ω = Abstand des Mondperigäums vom aufsteigenden Knoten der Mondbahn auf der Ekliptik.

$J = 1^\circ\ 32'\ 6''$ = Mittlere Neigung des Mondäquators gegen die Ekliptik.

$\tau = -12'' \sin M + 59'' \sin M' + 18'' \sin 2\,\omega.$

$\rho = -107'' \cos M + 37'' \cos (M + 2\,\omega) - 11'' \cos (2\,M + 2\,\omega).$

$\sigma \sin J = -109'' \sin M + 37'' \sin (M + 2\,\omega) - 11'' \sin (2\,M + 2\,\omega).$

τ, ρ, σ sind die Beträge der physischen Mondlibration in selenographischer Länge, der Neigung und dem Knoten des Mondäquators auf der Ekliptik.

Tafel zur Berechnung der optischen Mondlibration.

λ-☊	Δλ	$\frac{1}{a}$	*B*		λ-☊	Δλ	$\frac{1}{a}$	*B*	
0°	+0.0′	+37	+0° 0.0′	1.6	35°	+0.6′	+ 45	+0° 52.8′	1.3
1	0.0	37	0 1.6	1.6	36	0.6	46	0 54.1	1.3
2	0.0	37	0 3.2	1.6	37	0.6	47	0 55.4	1.3
3	0.1	37	0 4.8	1.6	38	0.6	47	0 56.7	1.3
4	0.1	37	0 6.4	1.6	39	0.6	48	0 58.0	1.2
5	+0.1	+37	+0 8.0	1.6	40	+0.6	+ 49	+0 59.2	1.2
6	0.1	37	0 9.6	1.6	41	0.6	49	1 0.4	1.2
7	0.1	38	0 11.2	1.6	42	0.6	50	1 1.6	1.2
8	0.2	38	0 12.8	1.6	43	0.6	51	1 2.8	1.2
9	0.2	38	0 14.4	1.6	44	0.6	52	1 4.0	1.2
10	+0.2	+38	+0 16.0	1.6	45	+0.6	+ 53	+1 5.2	1.1
11	0.2	38	0 17.6	1.5	46	0.6	54	1 6.3	1.1
12	0.2	38	0 19.1	1.6	47	0.6	55	1 7.4	1.1
13	0.3	38	0 20.7	1.6	48	0.6	56	1 8.5	1.1
14	0.3	38	0 22.3	1.6	49	0.6	57	1 9.6	1.0
15	+0.3	+39	+0 23.9	1.5	50	+0.6	+ 58	+1 10.6	1.1
16	0.3	39	0 25.4	1.6	51	0.6	59	1 11.7	1.0
17	0.3	39	0 27.0	1.5	52	0.6	60	1 12.7	1.0
18	0.4	39	0 28.5	1.6	53	0.6	61	1 13.7	0.9
19	0.4	39	0 30.1	1.5	54	0.6	63	1 14.6	0.9
20	+0.4	+40	+0 31.6	1.5	55	+0.6	+ 65	+1 15.5	0.9
21	0.4	40	0 33.1	1.5	56	0.6	67	1 16.4	0.9
22	0.4	40	0 34.6	1.5	57	0.6	69	1 17.3	0.8
23	0.4	41	0 36.1	1.4	58	0.6	71	1 18.1	0.9
24	0.5	41	0 37.5	1.5	59	0.5	73	1 19.0	0.8
25	+0.5	+41	+0 39.0	1.4	60	+0.5	+ 75	+1 19.8	0.8
26	0.5	41	0 40.4	1.5	61	0.5	77	1 20.6	0.7
27	0.5	42	0 41.9	1.4	62	0.5	79	1 21.3	0.8
28	0.5	42	0 43.3	1.4	63	0.5	82	1 22.1	0.7
29	0.5	43	0 44.7	1.4	64	0.5	85	1 22.8	0.7
30	+0.5	+43	+0 46.1	1.4	65	+0.5	+ 88	+1 23.5	0.6
31	0.5	43	0 47.5	1.3	66	0.5	92	1 24.1	0.7
32	0.6	44	0 48.8	1.3	67	0.4	96	1 24.8	0.6
33	0.6	44	0 50.1	1.3	68	0.4	100	1 25.4	0.6
34	0.6	45	0 51.4	1.4	69	0.4	104	1 26.0	0.5
35	+0.6	+45	+0 52.8		70	+0.4	+109	+1 26.5	

Tafel zur Berechnung der optischen Mondlibration.

$\lambda - ☋$	$\Delta\lambda$	$\frac{1}{a}$	B	Diff.	$\lambda - ☋$	$\Delta\lambda$	$\frac{1}{a}$	B	Diff.
70°	+0.4′	+109	+1° 26.5′	0.6	80°	+0.2′	+ 215	+1° 30.7′	0.2
71	0.4	115	1 27.1	0.5	81	0.2	239	1 30.9	0.2
72	0.4	121	1 27.6	0.5	82	0.2	268	1 31.1	0.2
73	0.3	128	1 28.1	0.5	83	0.1	306	1 31.3	0.2
74	0.3	136	1 28.6	0.4	84	0.1	357	1 31.5	0.2
75	+0.3	+144	+1 29.0	0.4	85	+0.1	+ 429	+1 31.7	0.1
76	0.3	154	1 29.4	0.4	86	0.1	535	1 31.8	0.1
77	0.3	166	1 29.8	0.3	87	0.1	713	1 31.9	0.1
78	0.2	180	1 30.1	0.3	88	0.0	1070	1 32.0	0.1
79	0.2	196	1 30.4	0.3	89	0.0	+2139	1 32.1	0.0
80	+0.2	+215	+1 30.7		90	0.0	∞	+1 32.1	

$J = 1° 32' 6''$ = Neigung des Mondäquators gegen die Ekliptik.

$☋ = 180° + ☊$ = Länge des absteigenden Knotens der Mondbahn auf der Ekliptik (siehe Tafel S. 88).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$$\Delta\lambda = \operatorname{tg} \frac{J^2}{2} \sin 2(\lambda - ☋)\, 3437'{\cdot}75 \qquad \frac{1}{a} = \frac{1}{\cos(\lambda - ☋) \sin J}$$

$$\operatorname{tg} B = \sin(\lambda - ☋) \operatorname{tg} J$$

l_0 = Mittlere Länge des Mondes (siehe Tafel S. 88)

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

$$l' = \lambda + \Delta\lambda - \frac{B - \beta}{\frac{1}{a}} - l_0$$

$$b' = B - \beta.$$

Für $\lambda - ☋$ zwischen 90° und 180° gehe man mit dem Argument $180° - (\lambda - ☋)$ in die Tafel ein und nehme $\Delta\lambda$ und $\frac{1}{a}$ negativ.

Für $\lambda - ☋$ zwischen 180° und 270° gehe man mit dem Argument $\lambda - ☋ - 180°$ in die Tafel ein und nehme $\frac{1}{a}$ und B negativ.

Für $\lambda - ☋$ zwischen 270° und 360° gehe man mit dem Argument $360° - (\lambda - ☋)$ in die Tafel ein und nehme $\Delta\lambda$ und B negativ.

Bruchteile des Jahres 1913,

für 0^h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.

Monatstag	Januar		Februar		März		April		Mai		Juni	
	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch
1	0	0.0014	31	0.0862	59	0.1629	90	0.2478	120	0.3299	151	0.4148
2	1	0041	32	0890	60	1656	91	2505	121	3327	152	4175
3	2	0068	33	0917	61	1684	92	2533	122	3354	153	4203
4	3	0096	34	0945	62	1711	93	2560	123	3381	154	4230
5	4	0123	35	0972	63	1739	94	2587	124	3409	155	4257
6	5	0.0151	36	0.0999	64	0.1766	95	0.2615	125	0.3436	156	0.4285
7	6	0178	37	1027	65	1793	96	2642	126	3463	157	4312
8	7	0205	38	1054	66	1821	97	2669	127	3491	158	4340
9	8	0233	39	1081	67	1848	98	2697	128	3518	159	4367
10	9	0260	40	1109	68	1875	99	2724	129	3546	160	4394
11	10	0.0287	41	0.1136	69	0.1903	100	0.2752	130	0.3573	161	0.4422
12	11	0315	42	1164	70	1930	101	2779	131	3600	162	4449
13	12	0342	43	1191	71	1958	102	2806	132	3628	163	4476
14	13	0370	44	1218	72	1985	103	2834	133	3655	164	4504
15	14	0397	45	1246	73	2012	104	2861	134	3682	165	4531
16	15	0.0424	46	0.1273	74	0.2040	105	0.2888	135	0.3710	166	0.4559
17	16	0452	47	1300	75	2067	106	2916	136	3737	167	4586
18	17	0479	48	1328	76	2094	107	2943	137	3765	168	4613
19	18	0506	49	1355	77	2122	108	2971	138	3792	169	4641
20	19	0534	50	1383	78	2149	109	2998	139	3819	170	4668
21	20	0.0561	51	0.1410	79	0.2177	110	0.3025	140	0.3847	171	0.4695
22	21	0589	52	1437	80	2204	111	3053	141	3874	172	4723
23	22	0616	53	1465	81	2231	112	3080	142	3901	173	4750
24	23	0643	54	1492	82	2259	113	3108	143	3929	174	4778
25	24	0671	55	1519	83	2286	114	3135	144	3956	175	4805
26	25	0.0698	56	0.1547	84	0.2313	115	0.3162	145	0.3984	176	0.4832
27	26	0726	57	1574	85	2341	116	3190	146	4011	177	4860
28	27	0753	58	1602	86	2368	117	3217	147	4038	178	4887
29	28	0780	59	1629	87	2396	118	3244	148	4066	179	4915
30	29	0808			88	2423	119	3272	149	4093	180	4942
31	30	0.0835			89	0.2450	120	0.3299	150	0.4121	181	0.4969
32	31	0862			90	2478			151	4148		

Bruchteile des Jahres 1913,

für 0^h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.

Monatstag	Juli		August		September		Oktober		November		Dezember	
	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch
1	181	0.4969	212	0.5818	243	0.6667	273	0.7488	304	0.8337	334	0.9158
2	182	4997	213	5845	244	6694	274	7516	305	8364	335	9186
3	183	5024	214	5873	245	6722	275	7543	306	8392	336	9213
4	184	5051	215	5900	246	6749	276	7570	307	8419	337	9240
5	185	5079	216	5928	247	6776	277	7598	308	8446	338	9268
6	186	0.5106	217	0.5955	248	0.6804	278	0.7625	309	0.8474	339	0.9295
7	187	5134	218	5982	249	6831	279	7652	310	8501	340	9323
8	188	5161	219	6010	250	6858	280	7680	311	8529	341	9350
9	189	5188	220	6037	251	6886	281	7707	312	8556	342	9377
10	190	5216	221	6064	252	6913	282	7735	313	8583	343	9405
11	191	0.5243	222	0.6092	253	0.6941	283	0.7762	314	0.8611	344	0.9432
12	192	5270	223	6119	254	6968	284	7789	315	8638	345	9459
13	193	5298	224	6147	255	6995	285	7817	316	8665	346	9487
14	194	5325	225	6174	256	7023	286	7844	317	8693	347	9514
15	195	5353	226	6201	257	7050	287	7871	318	8720	348	9542
16	196	0.5380	227	0.6229	258	0.7077	288	0.7899	319	0.8748	349	0.9569
17	197	5407	228	6256	259	7105	289	7926	320	8775	350	9596
18	198	5435	229	6283	260	7132	290	7954	321	8802	351	9624
19	199	5462	230	6311	261	7160	291	7981	322	8830	352	9651
20	200	5489	231	6338	262	7187	292	8008	323	8857	353	9678
21	201	0.5517	232	0.6366	263	0.7214	293	0.8036	324	0.8884	354	0.9706
22	202	5544	233	6393	264	7242	294	8063	325	8912	355	9733
23	203	5572	234	6420	265	7269	295	8091	326	8939	356	9761
24	204	5599	235	6448	266	7296	296	8118	327	8967	357	9788
25	205	5626	236	6475	267	7324	297	8145	328	8994	358	9815
26	206	0.5654	237	0.6502	268	0.7351	298	0.8173	329	0.9021	359	0.9843
27	207	5681	238	6530	269	7379	299	8200	330	9049	360	9870
28	208	5709	239	6557	270	7406	300	8227	331	9076	361	9898
29	209	5736	240	6585	271	7433	301	8255	332	9104	362	9925
30	210	5763	241	6612	272	7461	302	8282	333	9131	363	9952
31	211	0.5791	242	0.6639	273	0.7488	303	0.8310	334	0.9158	364	0.9980
32	212	5818	243	6667			304	8337			365	1.0007

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21058	57583	94108	30633	67158	03683	40208	76733	13258	49783
4	22519	59044	95569	32094	68619	05144	41669	78194	14719	51244
8	23980	60505	97030	33555	70080	06605	43130	79655	16180	52705
12	25441	61966	98491	35016	71541	08066	44591	81116	17641	54166
16	26902	63427	99952	36477	73002	09527	46052	82577	19102	55627
20	28363	64888	01413	37938	74463	10988	47513	84038	20563	57088
24	29824	66349	02874	39399	75924	12449	48974	85499	22024	58549
28	31285	67810	04335	40860	77385	13910	50435	86960	23485	60010
32	32746	69271	05796	42321	78846	15371	51896	88421	24946	61471
36	34207	70732	07257	43782	80307	16832	53357	89882	26407	62932
40	35668	72193	08718	45243	81768	18293	54818	91343	27868	64393
44	37129	73654	10179	46704	83229	19754	56279	92804	29329	65854
48	38590	75115	11640	48165	84690	21215	57740	94265	30790	67315
52	40051	76576	13101	49626	86151	22676	59201	95726	32251	68776
56	41512	78037	14562	51087	87612	24137	60662	97187	33712	70237
60	42973	79498	16023	52548	89073	25598	62123	98648	35173	71698
64	44434	80959	17484	54009	90534	27059	63584	00109	36634	73159
68	45895	82420	18945	55470	91995	28520	65045	01570	38095	74620
72	47356	83881	20406	56931	93456	29981	66506	03031	39556	76081
76	48817	85342	21867	58392	94917	31442	67967	04492	41017	77542
80	50278	86803	23328	59853	96378	32903	69428	05953	42478	79003
84	51739	88264	24789	61314	97839	34364	70889	07414	43939	80464
88	53200	89725	26250	62775	99300	35825	72350	08875	45400	81925
92	54661	91186	27711	64236	00761	37286	73811	10336	46861	83386
96	56122	92647	29172	65697	02222	38747	75272	11797	48322	84847
100	57583	94108	30633	67158	03683	40208	76733	13258	49783	86308
	17	17	18	18	19	19	19	20	20	20

Jahr n. Chr.	Tage
0	1721058
1	1721424
2	1721789
3	1722154
4	1722519

Jahr n. Chr.	Tage
1580	2298153
1581	2298519
1582	2298884
1583	2299239
1584	2299604

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86308	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*
4	87769	24294	60819	97344	33869	70394	06909	43433	79957	16481
8	89230	25755	62280	98805	35330	71855	08370	44894	81418	17942
12	90691	27216	63741	00266	36791	73316	09831	46355	82879	19403
16	92152	28677	65202	01727	38252	74777	11292	47816	84340	20864
20	93613	30138	66663	03188	39713	76238	12753	49277	85801	22325
24	95074	31599	68124	04649	41174	77699	14214	50738	87262	23786
28	96535	33060	69585	06110	42635	79160	15675	52199	88723	25247
32	97996	34521	71046	07571	44096	80621	17136	53660	90184	26708
36	99457	35982	72507	09032	45557	82082	18597	55121	91645	28169
40	00918	37443	73968	10493	47018	83543	20058	56582	93106	29630
44	02379	38904	75429	11954	48479	85004	21519	58043	94567	31091
48	03840	40365	76890	13415	49940	86465	22980	59504	96028	32552
52	05301	41826	78351	14876	51401	87926	24441	60965	97489	34013
56	06762	43287	79812	16337	52862	89387	25902	62426	98950	35474
60	08223	44748	81273	17798	54323	90848	27363	63887	00411	36935
64	09684	46209	82734	19259	55784	92309	28824	65348	01872	38396
68	11145	47670	84195	20720	57245	93770	30285	66809	03333	39857
72	12606	49131	85656	22181	58706	95231	31746	68270	04794	41318
76	14067	50592	87117	23642	60167	96692	33207	69731	06255	42779
80	15528	52053	88578	25103	61628	98153	34668	71192	07716	44240
84	16989	53514	90039	26564	63089	99604	36129	72653	09177	45701
88	18450	54975	91500	28025	64550	01065	37590	74114	10638	47162
92	19911	56436	92961	29486	66011	02526	39051	75575	12099	48623
96	21372	57897	94422	30947	67472	03987	40512	77036	13560	50084
100	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*	51545
	21	21	21	22	22	23	23	23	24	24

Anm. Die mit * bezeichneten Jahre sind Gemeinjahre.

Jahr n. Chr.	Tage	Jahr n. Chr.	Tage	Jahr n. Chr.	Tage
1700	2341973	1800	2378497	1900	2415021
1701	2342338	1801	2378862	1901	2415386
1702	2342703	1802	2379227	1902	2415751
1703	2343068	1803	2379592	1903	2416116
1704	2343433	1804	2379957	1904	2416481

Zur Verwandlung der Mittl. Zeit in Sternzeit.

Tafel I.

Red. auf St.-Zt.	Mittl. Zt.
m s	h m s
+0 0	0 0 0
0 10	1 0 52
0 20	2 1 45
0 30	3 2 37
0 40	4 3 30
0 50	5 4 22
+1 0	6 5 15
1 10	7 6 7
1 20	8 6 59
1 30	9 7 52
1 40	10 8 44
1 50	11 9 37
+2 0	12 10 29
2 10	13 11 21
2 20	14 12 14
2 30	15 13 6
2 40	16 13 59
2 50	17 14 51
+3 0	18 15 44
3 10	19 16 36
3 20	20 17 28
3 30	21 18 21
3 40	22 19 13
3 50	23 20 6
4 0	24 20 58

Tafel II.

Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.
s	m s	s	m s	s	m s
+0.0	0 0	+4.0	24 21	+8.0	48 42
0.1	0 37	4.1	24 58	8.1	49 19
0.2	1 13	4.2	25 34	8.2	49 55
0.3	1 50	4.3	26 11	8.3	50 32
0.4	2 26	4.4	26 47	8.4	51 8
0.5	3 3	4.5	27 24	8.5	51 45
0.6	3 39	4.6	28 0	8.6	52 21
0.7	4 16	4.7	28 37	8.7	52 58
0.8	4 52	4.8	29 13	8.8	53 34
0.9	5 29	4.9	29 50	8.9	54 11
+1.0	6 5	+5.0	30 26	+9.0	54 47
1.1	6 42	5.1	31 3	9.1	55 24
1.2	7 18	5.2	31 39	9.2	56 0
1.3	7 55	5.3	32 16	9.3	56 37
1.4	8 31	5.4	32 52	9.4	57 13
1.5	9 8	5.5	33 29	9.5	57 50
1.6	9 44	5.6	34 5	9.6	58 26
1.7	10 21	5.7	34 42	9.7	59 3
1.8	10 57	5.8	35 18	9.8	59 39
1.9	11 34	5.9	35 55	9.9	60 16
+2.0	12 10	+6.0	36 31		
2.1	12 47	6.1	37 8		
2.2	13 23	6.2	37 44		
2.3	14 0	6.3	38 21		
2.4	14 36	6.4	38 57		
2.5	15 13	6.5	39 34		
2.6	15 49	6.6	40 10		
2.7	16 26	6.7	40 47		
2.8	17 2	6.8	41 23		
2.9	17 39	6.9	42 0		
+3.0	18 16	+7.0	42 37		
3.1	18 53	7.1	43 14		
3.2	19 29	7.2	43 50		
3.3	20 6	7.3	44 27		
3.4	20 42	7.4	45 3		
3.5	21 19	7.5	45 40		
3.6	21 55	7.6	46 16		
3.7	22 32	7.7	46 53		
3.8	23 8	7.8	47 29		
3.9	23 45	7.9	48 6		

Tafel III.

s	m
+0.01	0 4
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung der Sternzeit in Mittl. Zeit.

Tafel I.

Red. auf Mittl. Zt.	Stern-Zt.
m s	h m s
— 0 0	0 0 0
0 10	1 1 2
0 20	2 2 5
0 30	3 3 7
0 40	4 4 10
0 50	5 5 12
— 1 0	6 6 15
1 10	7 7 17
1 20	8 8 19
1 30	9 9 22
1 40	10 10 24
1 50	11 11 27
— 2 0	12 12 29
2 10	13 13 31
2 20	14 14 34
2 30	15 15 36
2 40	16 16 39
2 50	17 17 41
— 3 0	18 18 44
3 10	19 19 46
3 20	20 20 48
3 30	21 21 51
3 40	22 22 53
3 50	23 23 56
4 0	24 24 58

Tafel II.

Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.
s	m s	s	m s	s	m s
— 0.0	0 0	— 4.0	24 25	— 8.0	48 50
0.1	0 37	4.1	25 2	8.1	49 27
0.2	1 13	4.2	25 38	8.2	50 3
0.3	1 50	4.3	26 15	8.3	50 40
0.4	2 26	4.4	26 51	8.4	51 16
0.5	3 3	4.5	27 28	8.5	51 53
0.6	3 40	4.6	28 5	8.6	52 30
0.7	4 16	4.7	28 41	8.7	53 6
0.8	4 53	4.8	29 18	8.8	53 43
0.9	5 30	4.9	29 55	8.9	54 20
— 1.0	6 6	— 5.0	30 31	— 9.0	54 56
1.1	6 43	5.1	31 8	9.1	55 33
1.2	7 19	5.2	31 44	9.2	56 9
1.3	7 56	5.3	32 21	9.3	56 46
1.4	8 32	5.4	32 57	9.4	57 22
1.5	9 9	5.5	33 34	9.5	57 59
1.6	9 46	5.6	34 11	9.6	58 36
1.7	10 22	5.7	34 47	9.7	59 12
1.8	10 59	5.8	35 24	9.8	59 49
1.9	11 36	5.9	36 1	9.9	60 26
— 2.0	12 12	— 6.0	36 37		
2.1	12 49	6.1	37 14		
2.2	13 25	6.2	37 50		
2.3	14 2	6.3	38 27		
2.4	14 38	6.4	39 3		
2.5	15 15	6.5	39 40		
2.6	15 52	6.6	40 17		
2.7	16 28	6.7	40 53		
2.8	17 5	6.8	41 30		
2.9	17 42	6.9	42 7		
— 3.0	18 19	— 7.0	42 44		
3.1	18 56	7.1	43 21		
3.2	19 32	7.2	43 57		
3.3	20 9	7.3	44 34		
3.4	20 45	7.4	45 10		
3.5	21 22	7.5	45 47		
3.6	21 59	7.6	46 24		
3.7	22 35	7.7	47 0		
3.8	23 12	7.8	47 37		
3.9	23 49	7.9	48 14		

Tafel III.

Red. auf Mittl. Zt.	Stern-Zt.
s	m s
— 0.01	0 4
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

Tag	h m s	Tag	h m s	Tag	h m s
0.01	0 14 24	0.36	8 38 24	0.71	17 2 24
0.02	0 28 48	0.37	8 52 48	0.72	17 16 48
0.03	0 43 12	0.38	9 7 12	0.73	17 31 12
0.04	0 57 36	0.39	9 21 36	0.74	17 45 36
0.05	1 12 0	0.40	9 36 0	0.75	18 0 0
0.06	1 26 24	0.41	9 50 24	0.76	18 14 24
0.07	1 40 48	0.42	10 4 48	0.77	18 28 48
0.08	1 55 12	0.43	10 19 12	0.78	18 43 12
0.09	2 9 36	0.44	10 33 36	0.79	18 57 36
0.10	2 24 0	0.45	10 48 0	0.80	19 12 0
0.11	2 38 24	0.46	11 2 24	0.81	19 26 24
0.12	2 52 48	0.47	11 16 48	0.82	19 40 48
0.13	3 7 12	0.48	11 31 12	0.83	19 55 12
0.14	3 21 36	0.49	11 45 36	0.84	20 9 36
0.15	3 36 0	0.50	12 0 0	0.85	20 24 0
0.16	3 50 24	0.51	12 14 24	0.86	20 38 24
0.17	4 4 48	0.52	12 28 48	0.87	20 52 48
0.18	4 19 12	0.53	12 43 12	0.88	21 7 12
0.19	4 33 36	0.54	12 57 36	0.89	21 21 36
0.20	4 48 0	0.55	13 12 0	0.90	21 36 0
0.21	5 2 24	0.56	13 26 24	0.91	21 50 24
0.22	5 16 48	0.57	13 40 48	0.92	22 4 48
0.23	5 31 12	0.58	13 55 12	0.93	22 19 12
0.24	5 45 36	0.59	14 9 36	0.94	22 33 36
0.25	6 0 0	0.60	14 24 0	0.95	22 48 0
0.26	6 14 24	0.61	14 38 24	0.96	23 2 24
0.27	6 28 48	0.62	14 52 48	0.97	23 16 48
0.28	6 43 12	0.63	15 7 12	0.98	23 31 12
0.29	6 57 36	0.64	15 21 36	0.99	23 45 36
0.30	7 12 0	0.65	15 36 0	1.00	24 0 0
0.31	7 26 24	0.66	15 50 24		
0.32	7 40 48	0.67	16 4 48		
0.33	7 55 12	0.68	16 19 12		
0.34	8 9 36	0.69	16 33 36		
0.35	8 24 0	0.70	16 48 0		

Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

Tag	m s	Tag	m s	Tag	m s	Tag	s
0.0001	0 8.64	0.0036	5 11.04	0.0071	10 13.44	0.00001	0.864
02	0 17.28	37	5 19.68	72	10 22.08	2	1.728
03	0 25.92	38	5 28.32	73	10 30.72	3	2.592
04	0 34.56	39	5 36.96	74	10 39.36	4	3.456
05	0 43.20	40	5 45.60	75	10 48.00	5	4.320
06	0 51.84	41	5 54.24	76	10 56.64	6	5.184
07	1 0.48	42	6 2.88	77	11 5.28	7	6.048
08	1 9.12	43	6 11.52	78	11 13.92	8	6.912
09	1 17.76	44	6 20.16	79	11 22.56	9	7.776
10	1 26.40	45	6 28.80	80	11 31.20	10	8.640
11	1 35.04	46	6 37.44	81	11 39.84		
12	1 43.68	47	6 46.08	82	11 48.48		
13	1 52.32	48	6 54.72	83	11 57.12		
14	2 0.96	49	7 3.36	84	12 5.76		
15	2 9.60	50	7 12.00	85	12 14.40		
16	2 18.24	51	7 20.64	86	12 23.04	0.000001	0.086
17	2 26.88	52	7 29.28	87	12 31.68	2	0.173
18	2 35.52	53	7 37.92	88	12 40.32	3	0.259
19	2 44.16	54	7 46.56	89	12 48.96	4	0.346
20	2 52.80	55	7 55.20	90	12 57.60	5	0.432
21	3 1.44	56	8 3.84	91	13 6.24	6	0.518
22	3 10.08	57	8 12.48	92	13 14.88	7	0.605
23	3 18.72	58	8 21.12	93	13 23.52	8	0.691
24	3 27.36	59	8 29.76	94	13 32.16	9	0.778
25	3 36.00	60	8 38.40	95	13 40.80	10	0.864
26	3 44.64	61	8 47.04	96	13 49.44		
27	3 53.28	62	8 55.68	97	13 58.08		
28	4 1.92	63	9 4.32	98	14 6.72		
29	4 10.56	64	9 12.96	99	14 15.36		
30	4 19.20	65	9 21.60	100	14 24.00		
31	4 27.84	66	9 30.24				
32	4 36.48	67	9 38.88				
33	4 45.12	68	9 47.52				
34	4 53.76	69	9 56.16				
35	5 2.40	70	10 4.80				

Hülfsgröfsen zur Berechnung der Präzession nach Newcomb

von den Katalogepochen t_0 bis 1913.0.

$t = 1913.0.$

t_0	$m^s (t-t_0)$	$\log [n^s (t-t_0)]$	$\log [n'' (t-t_0)]$
1755	+8^m 5.234^s	2.324734	3.500825
1790	6 17.786	2.215949	3.392040
1800	5 47.082	2.179113	3.355204
1810	5 16.376	2.138863	3.314954
1825	4 30.315	2.070495	3.246586
1830	+4 14.960	2.045086	3.221177
1835	3 59.605	2.018098	3.194189
1836	3 56.534	2.012493	3.188584
1840	3 44.249	1.989322	3.165413
1842	3 38.106	1.977255	3.153346
1845	+3 28.892	1.958503	3.134594
1850	3 13.536	1.925330	3.101421
1855	2 58.178	1.889412	3.065503
1860	2 42.820	1.850256	3.026347
1864	2 30.534	1.81617	2.99226
1865	+2 27.462	1.80722	2.98331
1870	2 12.103	1.75944	2.93553
1872	2 5.960	1.73875	2.91484
1875	1 56.745	1.70575	2.88184
1880	1 41.385	1.64447	2.82057
1885	+1 26.025	1.57311	2.74921
1890	1 10.665	1.48768	2.66377
1895	0 55.303	1.38122	2.55731
1900	0 39.942	1.23989	2.41598
1910	0 9.218	0.60305	1.77915

m und n sind die Newcombschen Konstanten für die Epoche $\frac{1}{2}(t+t_0)$.

Ist α', δ' der genäherte Sternort für die Zeit $\frac{1}{2}(t+t_0)$,

so ist

$$\alpha = \alpha_0 + [m^s(t-t_0)] + [n^s(t-t_0)] \sin\alpha' \operatorname{tg}\delta'$$
$$\delta = \delta_0 + [n''(t-t_0)] \cos\alpha'.$$

Hülfsgröfsen zur Übertragung mittlerer Polsternörter

von dem Äquinoktium t_0 auf 1913.0.

$t = 1913.0.$

t_0	ζ_0	z	θ
1755	60′ 38.″34	60′ 40.″32	52′ 48.″12
1790	47 12.83	47 14.03	41 6.19
1800	43 22.64	43 23.65	37 45.65
1810	39 32.42	39 33.26	34 25.11
1825	33 47.06	33 47.68	29 24.32
1830	31 51.93	31 52.48	27 44.06
1835	29 56.80	29 57.28	26 3.80
1840	28 1.66	28 2.08	24 23.55
1845	26 6.51	26 6.88	22 43.29
1850	24 11.36	24 11.68	21 3.04
1855	22 16.21	22 16.47	19 22.79
1860	20 21.04	20 21.27	17 42.54
1865	18 25.88	18 26.06	16 2.29
1870	16 30.70	16 30.85	14 22.04
1875	14 35.53	14 35.64	12 41.80
1880	12 40.34	12 40.43	11 1.55
1885	10 45.15	10 45.22	9 21.31
1890	8 49.96	8 50.00	7 41.07
1895	6 54.76	6 54.79	6 0.84
1900	4 59.56	4 59.57	4 20.60
1905	3 4.35	3 4.35	2 40.37
1910	1 9.13	1 9.13	1 0.14

Sind α_0, δ_0 die Koordinaten für t_0, α, δ jene für t, so hat man:

$$a_0 = \alpha_0 + \zeta_0$$

$$p = (\text{tang}\,\delta_0 + \cos a_0 \,\text{tang}\,\tfrac{1}{2}\,\Theta)\sin\Theta$$

$$\text{tang}\,\Delta a = \frac{p \sin a_0}{1 - p\cos a_0}$$

$$\alpha = a_0 + z + \Delta a$$

$$\text{tang}\,\tfrac{1}{2}(\delta - \delta_0) = \cos(a_0 + \tfrac{1}{2}\Delta a)\sec\tfrac{1}{2}\Delta a\,\text{tang}\,\tfrac{1}{2}\,\Theta$$

oder, fast immer ausreichend genau:

$$\delta = \delta_0 + \Theta\cos(a_0 + \tfrac{1}{2}\Delta a)\sec\tfrac{1}{2}\Delta a.$$

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia	69	+43 22 52.2	+1 0 34.9	+ 9.95	+43 11 22.8	9.999322
Åbo	—	+60 26 56.8	−0 35 31.50	− 5.84	+60 17 3.1	9.998902
Adelaide	43	−34 55 38.5	−8 20 45.62	−82.26	−34 44 50.9	9.999529
Albany (N. Stw.)[1]	40	+42 39 12.6	+5 48 41.16	+57.28	+42 27 44.5	9.999339
Alfred Centre N.Y.	556	+42 15 19.8	+6 4 41.93	+59.91	+42 3 52.5	9.999384
Algier (N. Stw.)[2]	342	+36 47 50	+0 41 26.42	+ 6.81	+36 36 48	9.999505
Allegheny (N. Stw.)	370	+40 28 58.1	+6 13 40.19	+61.39	+40 17 36.3	9.999416
Allegheny (A. Stw.)	349	+40 27 41.6	+6 13 37.77	+61.38	+40 16 20.0	9.999415
Altenburg[3]	229	+50 58 20	+0 3 50.64	+ 0.63	+50 47 4	9.999141
Altona Mer.-Kreis[4]	31	+53 32 45.3	+0 13 48.61	+ 2.27	+53 21 44.5	9.999065
Amherst (Neue Stw.)	110	+42 21 56.5	+5 43 40.78	+56.46	+42 10 29.0	9.999341
Amherst (Alte Stw.)	122	+42 22 17.1	+5 43 39.52	+56.46	+42 10 49.6	9.999351
Annapolis	—	+38 58 53.5	+5 59 31.33	+59.06	+38 47 38.5	9.999428
Ann Arbor	285	+42 16 48.0	+6 28 30.03	+63.82	+42 5 20.7	9.999364
Arcetri Zentr. d. St.[5]	186	+43 45 14.4	+0 8 33.50	+ 1.41	+43 33 44.5	9.999321
Arequipa	2451	−16 22 28.0	+5 39 46.53	+55.82	−16 16 15.4	0.000053
Armagh	61	+54 21 12.7	+1 20 10.2	+13.17	+54 10 17.8	9.999047
Athen	—	+37 58 19.7	−0 41 18.12	− 6.78	+37 47 10.3	9.999453
Bamberg (Remeis' St.)	299	+49 53 6.0	+0 10 1.23	+ 1.65	+49 41 45.0	9.999174
Barcelona[6]	—	+41 24 2	+0 44 59.7	+ 7.39	+41 12 37	9.999368
Beloit	—	+42 30 9	+6 49 42.2	+67.31	+42 18 41	9.999340
Bergen	—	+60 23 54	+0 32 22.07	+ 5.32	+60 14 0	9.998903
Berkeley	97	+37 52 23.6	+9 2 37.56	+89.14	+37 41 14.7	9.999462
Berlin Zentr. d. St.[7]	47	+52 30 16.7	0 0 0.00	0.00	+52 19 9.0	9.999091
Berlin (Urania)	—	+52 31 30.7	+0 0 7.40	+ 0.02	+52 20 23.2	9.999088
Bern	573	+46 57 8.7	+0 23 49.25	+ 3.91	+46 45 39.5	9.999266
Besançon	312	+47 14 59.0	+0 29 37.7	+ 4.87	+47 3 30.3	9.999241
Bethlehem[8]	—	+40 36 23.5	+5 55 6.74	+58.34	+40 25 1.3	9.999388
Birr Castle[9]	—	+53 5 47	+1 25 15.7	+14.00	+52 54 43	9.999073
Bogota	2700	+ 4 35 48	+5 50 34	+57.59	+ 4 33 58	0.000175
Bologna Zentr. d. Stw.	—	+44 29 52.8	+0 8 10.32	+ 1.34	+44 18 22.3	9.999289
Bombay (Colaba)	19	+18 53 36.2	−3 57 40.90	−39.05	+18 46 34.1	9.999850
Bonn Zentr. d. Stw.	62	+50 43 45.0	+0 25 11.62	+ 4.14	+50 32 27.7	9.999136
Bordeaux (Floirac)	73	+44 50 7.2	+0 55 40.30	+ 9.14	+44 38 36.6	9.999286
Boston (University)	—	+42 21 32.5	+5 37 49.8	+55.50	+42 10 5.0	9.999344
Bothkamp[10]	32	+54 12 9.6	+0 13 3.6	+ 2.15	+54 1 13.6	9.999048

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, 7s.10 östlich. — [2]) Alte Sternwarte 3′.8 südlich, 8s östlich. — [3]) Fr. Krüger. — [4]) 1873 nach Kiel verlegt. — [5]) Seit Oktober 1872, früher in Florenz. — [6]) J. Comas Solá. — [7]) Seit 1835. Alte Sternwarte 56″.4 nördlich, 0s.39 westlich. — [8]) Sayre Observatory, auch South-Bethlehem. — [9]) Earl of Rosse. — [10]) Herr von Bülow.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Bremen (Olbers' Stw.) .	—	+53 4 36	+0 18 20	+ 3.01	+52 53 32	9.999074
Breslau Zentr. d. Stw. .	147	+51 6 56.5	−0 14 33.92	− 2.39	+50 55 41.1	9.999132
Breteuil Zentr.[1]) . .	66	+48 49 48	+0 44 41.9	+ 7.34	+48 38 23	9.999184
Brisbane	—	−27 28 0	−9 18 31.6	−91.75	−27 18 36	9.999693
Brüssel (Alte St.) Pass.Instr.	56	+50 51 10.7	+0 36 6.09	+ 5.93	+50 39 54.0	9.999133
Brüssel (Uccle)	102	+50 47 55.5	+0 36 7.9	+ 5.94	+50 36 38.5	9.999137
Budapest[2])	110	+47 28 49	−0 22 38.9	− 3.73	+47 17 21	9.999221
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	−0 50 52.21	− 8.36	+44 13 3.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	+0 53 12.05	+ 8.74	+52 1 42.2	9.999097
Cambridge Mass.[3]) .	24	+42 22 47.6	+5 38 5.82	+55.54	+42 11 20.1	9.999345
Cap d. gut. Hoffnung	16	−33 56 3.2	−0 20 19.94	− 3.34	−33 45 24.3	9.999551
Catania	60	+37 30 13.3	−0 6 45.8	− 1.11	+37 19 6.7	9.999468
Chapultepec (Alte Stw.)[4])	—	+19 25 17.5	+7 30 13.08	+73.96	+19 18 5.5	9.999841
Charkow	138	+50 0 10.2	−1 31 19.8	−15.01	+49 48 49.7	9.999159
Charlottesville[5]) . .	250	+38 2 1.2	+6 7 40.06	+60.40	+37 50 51.4	9.999468
Chicago (Alte Stw.)[6]) .	—	+41 50 1.0	+6 44 1.62	+66.37	+41 38 34.8	9.999357
Christiania Mer.-Kreis .	25	+59 54 43.7	+0 10 41.29	+ 1.76	+59 44 43.5	9.998916
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+6 31 33.89	+64.32	+38 55 10.9	9.999425
Cincinnati (Neue Stw.)[7])	263	+39 8 19.8	+6 31 16.13	+64.27	+38 57 4.0	9.999442
Cleveland (Case Obs.) .	—	+41 30 14.5	+6 20 0.66	+62.43	+41 18 49.3	9.999365
Clinton (Litchfield Obs.)	276	+43 3 16.5	+5 55 12.28	+58.35	+42 51 47.6	9.999345
Coimbra	99	+40 12 24.5	+1 27 17.9	+14.34	+40 1 3.9	9.999404
Columbia Missouri[8]) .	225	+38 56 51.7	+7 2 53.17	+69.47	+38 45 36.9	9.999444
Cordoba	439	−31 25 15.5	+5 10 23.0	+50.99	−31 15 2.0	9.999638
Danzig	3	+54 21 18.0	−0 21 4.7	− 3.46	+54 10 23.1	9.999043
Denver[9])	1650	+39 40 36.4	+7 53 22.47	+77.76	+39 29 18.1	9.999523
Dorpat Mer.-Kreis . .	73	+58 22 47.1	−0 53 18.43	− 8.76	+58 12 29.5	9.998953
Dresden (Neue Stw.)[10]).	121	+51 2 16.8	−0 1 19.94	− 0.22	+50 51 1.0	9.999132
Dresden (Mathem. Salon)	—	+51 3 14.7	−0 1 21.03	− 0.22	+50 51 59.0	9.999124
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+1 18 55.9	+12.97	+53 12 11.2	9.999072
Düsseldorf (Bilk) . . .	26	+51 12 25.0	+0 26 29.9	+ 4.35	+51 1 10.0	9.999122
Dunecht[11])	141	+57 9 36	+1 3 15	+10.39	+56 59 6	9.998986
Durham	—	+54 46 6.2	+0 59 54.5	+ 9.84	+54 35 14.6	9.999033
Edinburg	106	+55 57 23.2	+1 6 17.85	+10.89	+55 46 41.7	9.999012
Edinburg (Blackf. Hill) .	134	+55 55 28.0	+1 6 18.8	+10.89	+55 44 46.2	9.999014
Evanston (Dearborn Obs.)	—	+42 3 33.4	+6 44 17.1	+66.41	+41 52 6.6	9.999351

[1]) Bureau international des Poids et Mesures. — [2]) Observ. der Kgl. ungar. Universität. — [3]) Harvard College Observatory. — [4]) 1883 nach Tacubaya verlegt. — [5]) Leander Mc. Cormick Obs. der University of Virginia. — [6]) 1887 geschlossen. — [7]) Mount Lookout, seit 1873. — [8]) Laws Observatory. — [9]) University Park, Chamberlin Observatory. — [10]) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14″.2 nördlich, 1ˢ.57 westlich. — [11]) Earl of Crawford.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Flagstaff (Lowell Obs.)	—	+35 12 30.5	+8 20 19.4	+82.19	+35 1 40.5	9.999520
Florenz (Alte Sternw.)[1]	73	+43 46 4.1	+0 8 33.50	+ 1.40	+43 34 34.2	9.999313
Florenz (Mil. Geogr. Inst.)	—	+43 46 49.3	+0 8 32.28	+ 1.40	+43 35 19.4	9.999308
Gent Mer.-Kreis	407	+46 11 59.1	+0 28 58.19	+ 4.76	+46 0 29.0	9.999274
Genua (Mar. Stw.) Mer.-Kr.	—	+44 25 9.3	+0 17 53.52	+ 2.94	+44 13 38.8	9.999291
Georgetown D. C.	46	+38 54 26.2	+6 1 53.13	+59.45	+38 43 11.6	9.999433
Glasgow Schottl.	—	+55 52 42.6	+1 10 45.35	+11.62	+55 42 0.4	9.999007
Glasgow Missouri	228	+39 13 45.6	+7 4 52.86	+69.80	+39 2 29.4	9.999438
Göttingen Mer.-Kreis	161	+51 31 48.2	+0 13 48.58	+ 2.27	+51 20 34.9	9.999123
Gohlis[2]	108	+51 21 35.0	+0 4 5.26	+ 0.67	+51 10 20.8	9.999123
Gotha (Neue Stw.) Zentr. d. St.[3]	320	+50 56 37.5	+0 10 44.28	+ 1.76	+50 45 21.2	9.999149
Graz	375	+47 4 37.2	−0 8 13	− 1.35	+46 53 8.2	9.999250
Greenwich Transit Circle	47	+51 28 38.1	+0 53 34.80	+ 8.80	+51 17 24.5	9.999116
Grignon	—	+47 33 42	+0 35 57	+ 5.91	+47 22 14	9.999212
Groningen	4	+53 13 19.1	+0 27 19.6	+ 4.49	+53 2 16.1	9.999070
Hamburg (Alte Stw.) M.-Kr.	25	+53 33 5.2	+0 13 41.20	+ 2.25	+53 22 4.4	9.999064
Hamburg (Bergedorf) M.-Kr.	40	+53 28 46.0	+0 12 37.06	+ 2.07	+53 17 44.7	9.999067
Hamburg (D. Seewarte)	30	+53 32 51.8	+0 13 41.38	+ 2.25	+53 21 51.0	9.999065
Hanover N. H.	—	+43 42 15.2	+5 42 42.80	+56.30	+43 30 45.4	9.999310
Harrow (Col. Tupmann)	66	+51 34 47.4	+0 54 54.7	+ 9.19	+51 23 33.5	9.999115
Hastings on Huds.[4]	—	+40 59 25	+5 49 4.5	+57.35	+40 48 1	9.999378
Haverford	—	+40 0 36.5	+5 54 47.59	+58.28	+39 49 16.7	9.999403
Heidelberg (Wolfs Stw.)	—	+49 24 35	+0 18 46.4	+ 3.08	+49 13 12	9.999165
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	+0 18 41.67	+ 3.07	+49 12 31.7	9.999204
St. Helena	210	−15 55 26	+1 16 27.0	+12.56	−15 49 23	9.999906
Helsingfors Mer.-Kreis	38	+60 9 42.6	−0 46 14.30	− 7.60	+59 59 45.4	9.998912
Helwan	119	+29 51 33	−1 11 47	−11.79	+29 41 38	9.999650
Herény (von Gothard)	229	+47 15 47.4	−0 12 49.8	− 2.11	+47 4 18.7	9.999235
Hongkong	—	+22 18 13.2	−6 43 7.1	−66.22	+22 10 9.4	9.999792
Hudson	—	+41 14 42.6	+6 19 18.99	+62.31	+41 3 18.2	9.999372
Ipswich (Orwell Park)[5]	—	+52 0 33	+0 48 39.0	+ 7.99	+51 49 22	9.999100
Jena (Univers.) Zentr. d. St.	156	+50 55 35.6	+0 7 14.58	+ 1.19	+50 44 19.2	9.999137
Jena (Winkler)	174	+50 56 15.7	+0 7 14.07	+ 1.19	+50 44 59.4	9.999139
Johannesburg	1806	−26 10 55.0	−0 58 43.20	− 9.65	−26 1 49.2	9.999842
Kairo	—	+30 4 38.2	−1 11 34.00	−11.76	+29 54 40.2	9.999638
Kalocsa[6]	110	+46 31 42	−0 22 19.4	− 3.67	+46 20 12	9.999245

[1]) 1872 nach Arcetri verlegt. — [2]) Winkler, August 1887 nach Jena verlegt. — [3]) Seit 1853, früher Seeberg. — [4]) Dr. Draper. — [5]) Col. Tomline. — [6]) Erzbischöfl. Haynaldsche Sternwarte.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Karlsruhe[1]	110	+49 0 29.6	+0 19 59.40	+ 3.28	+48 49 5.4	9.999183
Kasan (Univers.)	79	+55 47 24.3	−2 22 54.13	−23.48	+55 36 41.3	9.999014
Kasan (Engelhardt) . . .	98	+55 50 20.0	−2 21 41.6	−23.28	+55 39 37.4	9.999014
Kew	10	+51 28 6	+0 54 49.9	+ 9.01	+51 16 52	9.999115
Kiel Neuer Mer.-Kreis . .	52	+54 20 27.6	+0 12 59.35	+ 2.13	+54 9 32.6	9.999047
Kiel Alter Mer.-Kreis . .	47	+54 20 28.5	+0 12 59.23	+ 2.13	+54 9 33.5	9.999047
Kiew Mer.-Kreis	179	+50 27 12.5	−1 8 25.77	−11.24	+50 15 53.9	9.999151
Kis Kartal[2]	—	+47 41 54.8	−0 24 36.8	− 4.04	+47 30 27.0	9.999208
Königsberg Reps. M.-Kr.[3]	22	+54 42 50.6	−0 28 24.18	− 4.67	+54 31 58.6	9.999036
Kopenhagen (Neue Stw.)[4]	14	+55 41 12.6	+0 3 16.11	+ 0.54	+55 30 28.7	9.999012
Kopenhagen (Urania-St.)	10	+55 41 19.2	+0 3 25.69	+ 0.56	+55 30 35.2	9.999012
Krakau Mer.-Kreis . . .	221	+50 3 51.9	−0 26 15.48	− 4.31	+49 52 31.6	9.999164
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 2 56.78	− 0.48	+47 51 56.1	9.999225
Landstuhl (Fauth) . . .	385	+49 24 42.5	+0 23 18.45	+ 3.83	+49 13 19.7	9.999191
La Plata	—	−34 54 30	+4 45 11.9	+46.85	−34 43 43	9.999527
Leiden (Neue Stw.) Mer.-Kr.[5]	6	+52 9 20.2	+0 35 38.65	+ 5.86	+51 58 10.4	9.999097
Leipzig (Neue Stw.) Zentr.[6]	119	+51 20 5.9	+0 4 0.87	+ 0.66	+51 8 52.0	9.999125
Lemberg	338	+49 50 11	−0 42 29	− 6.98	+49 38 50	9.999177
Leyton[7]	—	+51 34 34.0	+0 53 35.7	+ 8.80	+51 23 21.0	9.999111
Lissabon (Neue Stw.) . .	94	+38 42 31.3	+1 30 19.58	+14.84	+38 31 17.7	9.999441
Lissabon (Mar. Stw.) . .	—	+38 42 17.6	+1 30 8.4	+14.81	+38 31 4.0	9.999435
Liverpool (Neue Stw.)[8]	61	+53 24 3.8	+1 5 52.0	+10.82	+53 13 2.0	9.999070
London[9]	—	+51 31 30	+0 54 11.9	+ 8.90	+51 20 17	9.999112
Lübeck (Navig.-Sch.) .	19	+53 51 31.1	+0 10 49.2	+ 1.78	+53 40 32.5	9.999056
Lund Zentr. d. Stw. . .	34	+55 41 52.0	+0 0 49.83	+ 0.14	+55 31 8.3	9.999013
Lussinpiccolo[10] . . .	—	+44 32 11	−0 4 17.5	− 0.70	+44 20 40	9.999288
Lüttich Ougrée . . .	128	+50 37 6	+0 31 23	+ 5.15	+50 25 48	9.999144
Lyon	299	+45 41 40.8	+0 34 26.8	+ 5.66	+45 30 10.3	9.999279
Madison (Washburn Obs.)	293	+43 4 36.7	+6 51 12.70	+67.55	+42 53 7.8	9.999345
Madras	7	+13 4 8.1	−4 27 24.53	−43.93	+12 59 4.8	9.999926
Madrid Zentr. d. Stw. . .	655	+40 24 29.7	+1 8 19.89	+11.23	+40 13 8.3	9.999437
Mailand Gr. Turm . . .	120	+45 27 59.4	+0 16 48.91	+ 2.76	+45 16 30.1	9.999273
Manila	—	+14 35 25	−7 10 15	−70.68	+14 29 49	9.999909
Mannheim Zentr. d. Stw.	98	+49 29 11.0	+0 19 44.38	+ 3.24	+49 17 48.5	9.999170
Marburg	248	+50 48 46.9	+0 18 29.9	+ 3.04	+50 37 30.0	9.999147
Mare Island Calif. . .	18	+38 5 55.8	+9 2 40.39	+89.15	+37 54 45.6	9.999451

[1]) 1896 nach Heidelberg verlegt. — [2]) Baron von Podmaniczky. — [3]) Nach 1898, vor 1898 0s.01 westlich. — [4]) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0s.03 westlich. — [5]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0s.42 östlich. — [6]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4s.00 westlich. — [7]) J. Gurney Barclay. — [8]) Alte Sternwarte 44″.0 nördlich, 17s.1 östlich. — [9]) Regents Park, G. Bishop 1836—61. — [10]) Manora-Sternwarte.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Markree (Col. Cooper) .	45	+54 10 31.7	+1 27 23.2	+14.36	+53 59 35.5	9.999050
Marseille (N. St.) M.-Kr.[1]	75	+43 18 19.1	+0 32 0.24	+ 5.26	+43 6 49.8	9.999325
Melbourne	28	−37 49 53.1	−8 46 19.37	−86.46	−37 38 44.5	9.999458
Meudon	—	+48 48 18	+0 44 39.3	+ 7.34	+48 36 53	9.999180
Mexico	2277	+19 26 1.3	+7 30 1.51	+73.93	+19 18 49.0	9.999995
Middletown Conn. .	—	+41 33 16.0	+5 44 12.0	+56.54	+41 21 50.6	9.999364
Modena	63	+44 38 52,8	+0 9 52.0	+ 1.62	+44 27 22.2	9.999289
Moncalieri	—	+44 59 51	+0 22 46	+ 3.74	+44 48 20	9.999277
Montreal	20	+45 30 17.0	+5 47 53.45	+57.15	+45 18 46.4	9.999265
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+9 0 9.65	+88.74	+37 9 20.1	9.999556
Mt. Wilson Calif. . .	1731	+34 12 59.5	+8 45 49.13	+86.27	+34 2 18.0	9.999661
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−1 36 42.23	−15.89	+55 34 36.2	9.999019
Mundenheim[2] . . .	—	+49 27 30	+0 19 51	+ 3.26	+49 16 7	9.999164
München West-Kuppel	529	+48 8 45.5	+0 7 8.78	+ 1.17	+47 57 18.8	9.999233
Nashville (Vanderbilt Obs.)	—	+36 8 58.2	+6 40 47.61	+65.84	+35 58 0.9	9.999497
Natal	79	−29 50 46.6	−1 10 26.38	−11.57	−29 40 51.3	9.999648
Neapel (Capo di M.) . .	164	+40 51 45.4	−0 3 26.8	− 0.57	+40 40 22.3	9.999392
Neuchâtel	488	+46 59 50.6	+0 25 45.05	+ 4.23	+46 48 21.5	9.999259
New Haven (Neue Stw.)[3]	—	+41 19 22.3	+5 45 15.33	+56.72	+41 7 57.6	9.999369
New York (Rutherfurd)	—	+40 43 48.5	+5 49 31.46	+57.42	+40 32 25.8	9.999384
New York (Columb. C.)	—	+40 45 23.1	+5 49 28.53	+57.41	+40 34 0.3	9.999384
Nikolajew	55	+46 58 22.1	−1 14 18.96	−12.21	+46 46 51.4	9.999230
Nizza Kl. Mer.-Kr.[4] . .	378	+43 43 16.9	+0 24 22.65	+ 4.01	+43 31 47.0	9.999335
Northfield (Goodsell Obs.)	286	+44 27 41.6	+7 6 10.8	+70.01	+44 16 10.6	9.999310
Oakland Californ.[5] .	11	+37 48 5	+9 2 41.1	+89.15	+37 36 57	9.999458
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−1 9 27.25	−11.41	+46 17 6.3	9.999243
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−1 9 27.39	−11.41	+46 17 6.1	9.999239
Ogden Utah	—	+41 13 8.6	+8 21 34.45	+82.40	+41 1 44.3	9.999372
O-Gyalla (Neue Stw.)[6]	—	+47 52 27.3	−0 19 10.69	− 3.15	+47 40 59.9	9.999204
Olmütz[7]	—	+49 35 43	−0 15 33	− 2.55	+49 24 21	9.999160
Ottawa	84	+45 23 37.3	+5 56 26.73	+58.55	+45 12 6.7	9.999277
Oxford (Radcl. Obs.) . .	65	+51 45 35.4	+0 58 37.4	+ 9.63	+51 34 23.4	9.999111
Oxford (Univers.) . . .	64	+51 45 34.2	+0 58 35.2	+ 9.62	+51 34 22.2	9.999110
Oxford Mississippi .	—	+34 22 12.6	+6 51 41.9	+67.63	+34 11 29.7	9.999540
Padua Mauer-Quadr. . .	31	+45 24 1.0	+0 6 5.65	+ 1.00	+45 12 30.4	9.999268
Palermo	76	+38 6 44.0	+0 0 9.0	+ 0.02	+37 55 33.8	9.999454

[1]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6ˢ.2 westlich; 29ᵐ. — [2]) Dr. Max Mündler. — [3]) Yale University. Alte Sternwarte 45″.8 südlich, 1ˢ.58 westlich. — [4]) Herr R. Bischofsheim. — [5]) Chabot Observatory. — [6]) Dr. von Konkoly. — [7]) Herr von Unkrechtsberg.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Paramatta	—	−33 48 49.8	−9 10 25.4	−90.42	−33 38 12.0	9.999553
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	+0 44 13.86	+ 7.27	+48 38 46.4	9.999183
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	+0 44 14.10	+ 7.27	+48 37 53.2	9.999180
Parma (Univ.-Stw.) Turm.	—	+44 48 4.7	+0 12 16.01	+ 2.41	+44 36 34.1	9.999282
Perth West.-Austr. . .	60	−31 57 9.6	−6 49 46.94	−67.32	−31 46 50.2	9.999600
Petersburg (Akademie)	20	+59 56 29.7	−1 7 38.55	−11.11	+59 46 29.9	9.998915
Petersburg (Univers.) .	4	+59 56 32.0	−1 7 36.5	−11.11	+59 46 32.2	9.998914
Philadelphia (Alte Stw.)	—	+39 57 7.5	+5 54 13.29	+58.19	+39 45 47.9	9.999404
Philadelphia[1]) . . .	—	+39 58 2.1	+5 54 41.4	+58.27	+39 46 42.5	9.999403
Plonsk[2])	—	+52 37 40.0	−0 27 57.1	− 4.59	+52 26 33.1	9.999085
Pola	32	+44 51 48.6	−0 1 48.16	− 0.30	+44 40 18.0	9.999282
Portsmouth	—	+50 48 3	+0 57 59.6	+ 9.53	+50 36 46	9.999130
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	+0 1 18.94	+ 0.22	+52 11 47.6	9.999098
Potsdam (Geod. Inst.) Turm	97	+52 22 54.8	+0 1 18.68	+ 0.22	+52 11 46.5	9.999098
Poughkeepsie[3]) . . .	46	+41 41 18	+5 49 8.4	+57.36	+41 29 52	9.999363
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	−0 4 5.49	− 0.67	+49 53 55.8	9.999161
Prag (Safarik)	—	+50 4 24	−0 4 13	− 0.69	+49 53 4	9.999148
Princeton N. J. (N. Stw.)[4])	76	+40 20 55.8	+5 52 14.33	+57.86	+40 9 34.6	9.999399
Providence[5])	—	+41 49 46.4	+5 39 12.42	+55.72	+41 38 20.2	9.999357
Pulkowa Zentr. d. Stw.	75	+59 46 18.7	−1 7 43.78	−11.13	+59 36 16.9	9.998922
Quebec Canada . . .	—	+46 48 17.3	+5 38 24.2	+55.59	+46 36 47.9	9.999231
Quito	2846	− 0 14 0	+6 8 55	+60.60	− 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	−0 42 53.31	− 7.04	+56 46 35	9.998981
Rio de Janeiro . . .	63	−22 54 23.7	+3 46 16.32	+37.17	−22 46 9.7	9.999786
Rochester (Lewis Swift)	172	+43 9 16.8	+6 3 56.67	+59.78	+42 57 47.7	9.999335
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	+0 3 39.44	+ 0.61	+41 42 27.3	9.999359
Rom (Capitol) Mer.-Kr.	63	+41 53 33.5	+0 3 38.46	+ 0.60	+41 42 7.2	9.999359
Rom (Vatican) Mer.-Kr.	100	+41 54 16.8	+0 3 45.52	+ 0.62	+41 42 50.4	9.999362
Rousdon	157	+50 42 38	+1 5 33.7	+10.76	+50 31 21	9.999143
Rugby	—	+52 22 7	+0 58 36.8	+ 9.63	+52 10 59	9.999091
St. Louis Missouri . .	—	+38 38 3.6	+6 54 23.95	+68.08	+38 26 50.4	9.999437
San Fernando . . .	31	+36 27 40.4	+1 18 24.17	+12.88	+36 16 40.8	9.999492
San Francisco[6]) . .	—	+37 47 28.0	+9 3 17.61	+89.25	+37 36 19.7	9.999457
Santiago de Chile (N. St.)	519	−33 26 42.0	+5 36 21.2	+55.24	−33 16 7.6	9.999596
Santiago de Chile (A. St.)	619	−33 26 25.4	+5 36 11.7	+55.22	−33 15 51.0	9.999603
Scarborough	—	+54 16 30	+0 55 13.7	+ 9.07	+54 5 36	9.999045

[1]) Flower Obs. (Univ. of Pennsylvania). — [2]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [3]) Vassar College. — [4]) Alte Sternwarte 2″.0 nördlich, 1ˢ.94 östlich; 65ᵐ. — [5]) Seagrave; Ladd Observatory, 35″ nördlich, 1ˢ.57 östlich. — [6]) Davidson Observatory.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Schwerin	—	+53 37 37.9	+ 0 7 54.00	+ 1.30	+53 26 37.7	9.999061
Seeberg[1]	356	+50 56 5.2	+ 0 10 39.70	+ 1.75	+50 44 48.9	9.999151
South Hadley	—	+42 15 18.2	+ 5 43 55.18	+ 56.50	+42 3 50.9	9.999346
Speyer	—	+49 18 55.2	+ 0 19 49.29	+ 3.26	+49 7 32.0	9.999168
Stockholm Mer.Kreis	44	+59 20 34.0	— 0 18 39.18	— 3.06	+59 10 27.2	9.998930
Stonyhurst	—	+53 50 40.0	+ 1 3 27.5	+ 10.42	+53 39 41.3	9.999055
Strafsburg (Prov. Stw.)	161	+48 34 54.0	+ 0 22 32.43	+ 3.70	+48 23 28.5	9.999197
Strafsburg (N.St.). M.-Kr.[2]	144	+48 35 0.2	+ 0 22 30.27	+ 3.70	+48 23 34.7	9.999196
Sydney	44	—33 51 41.1	— 9 11 14.80	— 90.55	—33 41 2.8	9.999555
Tacubaya[3]	2322	+19 24 17.5	+ 7 30 21.33	+ 73.98	+19 17 5.8	9.999999
Taschkent	457	+41 19 31.3	— 3 43 35.89	— 36.73	+41 8 6.6	9.999400
Taunton Mass. (Metcalf)	8	+41 54	+ 5 37 55	+ 55.51	+41 43	9.999355
Teramo (Cerulli)	398	+42 39 27	— 0 1 21	— 0.22	+42 27 59	9.999363
Tokio	—	+35 39 17.5	— 8 25 23.2	— 83.02	+35 28 24.0	9.999509
Toronto	—	+43 39 35.9	+ 6 11 9.49	+ 60.97	+43 28 6.1	9.999311
Tortosa (Ebro-Stw.) M.-Kr.	—	+40 49 14	+ 0 51 36.3	+ 8.48	+40 37 51	9.999382
Toulouse	194	+43 36 45.3	+ 0 47 43.8	+ 7.84	+43 25 15.6	9.999325
Triest	23	+45 38 45.4	— 0 1 28.10	— 0.24	+45 27 14.9	9.999262
Troy N. Y.	—	+42 43 52.9	+ 5 48 19.4	+ 57.22	+42 32 24.6	9.999334
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	— 7 7 41.41	— 70.26	+35 53 14.6	9.999499
Tulse Hill (W. Huggins)	53	+51 26 47.0	+ 0 54 2.5	+ 8.88	+51 15 33.3	9.999118
Turin Mer.-Kr.	276	+45 4 7.9	+ 0 22 47.65	+ 3.74	+44 52 37.3	9.999294
Twickenham (G. Bishop)	—	+51 27 4.2	+ 0 54 47.9	+ 9.00	+51 15 50.5	9.999114
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	— 0 16 55.33	— 2.78	+59 41 28.6	9.998916
Urbana Jll.	—	+40 6 20.2	+ 6 46 28.77	+ 66.77	+39 55 0.0	9.999400
Utrecht	12	+52 5 9.5	+ 0 33 3.2	+ 5.43	+51 53 59.3	9.999099
Valkenburg (Ignatius Coll.)	—	+50 52 29.3	+ 0 30 14.89	+ 4.97	+50 41 12.7	9.999128
Venedig	15	+45 26 10.5	+ 0 4 12.68	+ 0.69	+45 14 39.9	9.999267
Warschau Zentr. d. Stw.	110	+52 13 5.7	— 0 30 32.45	— 5.02	+52 1 56.3	9.999102
Warschau[4]	—	+52 13 10	— 0 30 30	— 5.01	+52 2 1	9.999095
Washington (Alte Stw.)	31	+38 53 38.9	+ 6 1 46.93	+ 59.43	+38 42 24.3	9.999432
Washington (Neue Stw.)	—	+38 55 14.0	+ 6 1 50.60	+ 59.44	+38 44 0.1	9.999430
Washington (Kath. Univ.)	—	+38 56 14.8	+ 6 1 34.8	+ 59.40	+38 45 0.0	9.999429
Wellington (Mt. Cook Obs.)	44	—41 16 47.1	—10 45 30.51	—106.04	—41 5 22.6	9.999374
West Point N. Y. (N. Stw.)[5]	—	+41 23 22	+ 5 49 25.4	+ 57.40	+41 11 57	9.999368
Whitestone (Field Obs.)	—	+40 47 21.6	+ 5 48 42.5	+ 57.28	+40 35 58.6	9.999383

[1]) Alte Sternwarte, 1853 nach Gotha verlegt. — [2]) Seit Anfang 1881. — [3]) Seit März 1883, früher in Chapultepec. — [4]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [5]) Seit 1883. Alte Sternwarte 9″ nördlich, 1ˢ.2 östlich.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Wien (Alte Sternw.) . . .	167 m	+48° 12′ 35″.5	−0h 11m 56s.81	− 1s.96	+48° 1′ 8″.9	9.999206
Wien (Josephstadt)[1] . .	214	+48 12 53.8	−0 11 50.37	− 1.94	+48 1 27.2	9.999210
Wien (Neue Sternw.) Zentr.	240	+48 13 55.4	−0 11 46.56	− 1.93	+48 2 28.9	9.999211
Wien (Ottakring)[2] . . .	285	+48 12 46.7	−0 11 36.17	− 1.91	+48 1 20.1	9.999215
Wien (Mil. Geogr. Inst.) . .	—	+48 12 40.0	−0 11 51.45	− 1.95	+48 1 13.4	9.999195
Wien (Techn. Hochschule)	—	+48 11 58.5	−0 11 54.91	− 1.96	+48 0 31.9	9.999196
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	+0 20 59.74	+ 3.45	+53 20 51.2	9.999064
Williams-Bay Wisc.[3]	—	+42 34 12.6	+6 47 48.08	+66.99	+42 22 44.7	9.999338
Williamstown Mass. .	—	+42 42 49	+5 46 28.3	+56.92	+42 31 21	9.999335
Williamstown Vict. .	—	−37 52 7.2	−8 46 3.3	−86.42	−37 40 58.4	9.999455
Wilna Pass.-Instr. . . .	122	+54 40 59.1	−0 47 33.96	− 7.81	+54 30 6.8	9.999043
Windsor N. S. W.[4] .	16	−33 36 30.8	−9 9 45.97	−90.31	−33 25 54.9	9.999559
Zô-sè China	100	+31 5 48	−7 11 10.0	−70.83	+30 55 38	9.999622
Zürich	470	+47 22 40.0	+0 19 22.5	+ 3.18	+47 11 11.5	9.999248

[1]) von Oppolzers Sternwarte. — [2]) v. Kuffner. — [3]) Yerkes Observatory. — [4]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Bahnelemente, Oppositionsangaben und Oppositions-Ephemeriden

der

kleinen Planeten

für

1911.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
1 Ceres	—	—	7.4	4.0	1910 Okt. 20.0	d. Ep.	235° 36′ 22.8″	68° 15′ 57.8″
2 Pallas	Nov. 24	7.5	8.0	4.5	1911 Nov. 8.0	d. Ep.	315 26 42.8	308 59 20.8
3 Juno	April 8	9.5	8.7	5.5	1911 März 29.0	d. Ep.	116 38 1.6	244 38 51.9
4 Vesta	—	—	6.5	4.0	1857 Jan. 1.0*)	d. Ep.	198 20 2.8	147 10 40.2
5 Astraea . . .	Nov. 7	9.6	9.9	6.9	1898 Sept. 11.0	1910.0	224 4 1.2	353 28 9.3
6 Hebe	Mai 25	9.2	8.5	5.8	1900 Juli 3.0	1910.0	284 20 20.1	236 56 30.6
7 Iris	—	—	8.4	5.8	1900 Jan. 0.0*)	1900.0	9 5 20.1	141 31 26.9
8 Flora	April 22	9.8	8.9	6.8	1848 Jan. 1.0*)	d. Ep.	35 52 49.3	282 38 15.6
9 Metis	Juni 8	9.5	8.9	6.3	1858 Juni 30.0	d. Ep.	57 4 34.7	2 32 16.9
10 Hygiea . . .	Juni 12	8.9	9.5	5.4	1898 Dez. 20.0	1910.0	291 20 17.9	308 57 0.0
11 Parthenope .	März 20	9.6	9.3	6.5	1901 Okt. 26.0	1910.0	65 58 42.7	193 25 55.1
12 Victoria . . .	Nov. 18	9.9	9.7	7.2	1851 Jan. 0.0*)	d. Ep.	66 2 39.9	66 4 43.3
13 Egeria . . .	Juli 15	10.2	9.7	6.7	1850 Jan. 0.0	1850.0	210 47 6.0	76 57 55.6
14 Irene	Nov. 3	10.3	9.7	6.6	1898 Okt. 1.0	1910.0	180 47 34.9	92 3 45.6
15 Eunomia . .	Juni 15	9.0	8.6	5.4	1854 Jan. 0.0	d. Ep.	122 5 36.4	93 59 32.5
16 Psyche . . .	—	—	9.6	5.9	1899 Juli 27.0	1910.0	301 1 33.0	226 3 57.4
17 Thetis . . .	Juli 19	9.3	10.1	7.3	1911 Juli 26.0	1910.0	27 0 26.4	137 49 53.1
18 Melpomene .	Juni 9	9.7	9.3	6.9	1854 Jan. 0.0*)	d. Ep.	80 4 37.0	225 1 41.3
19 Fortuna . . .	Jan. 14	9.6	9.8	7.1	1911 Jan. 27.0	1910.0	68 12 58.0	179 44 55.5
20 Massalia . . .	Juni 30	9.9	9.2	6.5	1899 März 29.0	1910.0	76 24 22.5	253 47 7.4
21 Lutetia . . .	Febr. 17	11.0	10.1	7.4	1853 Jan. 2.0*)	1852.0	74 20 5.1	246 36 10.2
22 Kalliope . . .	Okt. 10	9.5	9.8	6.1	1898 Okt. 1.0	1910.0	96 34 37.0	351 57 0.4
23 Thalia . . .	Sept. 17	10.0	10.5	7.3	1900 Jan. 3.0	1910.0	337 2 2.1	56 0 12.2
24 Themis . . .	Sept. 11	11.4	10.8	6.7	1905 Juni 27.0	1900.0	170 16 40.3	105 42 2.7
25 Phocaea . .	—	—	10.5	7.9	1898 Aug. 2.0	1910.0	7 21 33.6	88 49 22.7
26 Proserpina .	Nov. 11	11.0	10.5	7.3	1911 Nov. 3.0	1910.0	168 16 35.2	190 27 41.8
27 Euterpe . . .	—	—	9.7	7.2	1873 Jan. 5.0*)	1870.0	90 32 27.0	354 8 6.0
28 Bellona . . .	Juli 25	10.8	10.1	6.6	1911 Juli 6.0	1910.0	172 23 31.9	340 25 38.2
29 Amphitrite .	März 19	9.3	9.0	6.1	1855 Jan. 0.0*)	1870.0	198 1 40.2	59 42 14.8
30 Urania . . .	März 17	10.5	9.9	7.4	1890 Juni 5.0	1910.0	239 51 48.5	83 41 38.7
31 Euphrosyne .	—	—	11.0	6.8	1899 Okt. 15.0	1910.0	327 7 12.3	60 23 44.4
32 Pomona . . .	Juni 23	10.4	10.6	7.5	1855 Jan. 5.0*)	d. Ep.	223 54 39.3	332 38 53.4
33 Polyhymnia .	April 17	12.7	11.8	8.2	1900 Jan. 0.0	1910.0	137 40 57.3	334 11 19.2
34 Circe	—	—	11.5	8.2	1897 Dez. 5.0	1910.0	288 24 37.6	326 54 50.4
35 Leukothea .	—	—	12.2	8.3	1910 Dez. 18.0	1910.0	252 34 19.4	209 54 45.6
36 Atalante . .	—	—	12.0	8.6	1899 Mai 8.0	1910.0	179 27 12.1	44 26 46.7
37 Fides	Okt. 22	9.5	10.4	7.2	1911 Okt. 14.0	1910.0	330 43 0.6	59 40 4.2
38 Leda	April 1	11.3	11.4	8.0	1897 Febr. 8.0	1910.0	31 52 32.7	166 10 19.4
39 Laetitia . . .	Febr. 10	9.6	9.5	6.0	1897 Jan. 19.0	1910.0	111 43 50.9	205 28 15.6
40 Harmonia . .	Mai 30	9.3	9.2	6.9	1863 Jan. 0.0*)	d. Ep.	186 48 19.4	267 19 12.8

*) Mittlere Elemente.

☊	*i*	*φ*	*μ*	Log. *a*	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
80 43 47.5	10 36 51.2	4 24 55.5	770.5022	0.4421551	Godward.
172 55 57.8	34 41 59.9	13 47 40.8	768.9075	0.4427550	Farley.
170 50 9.2	13 1 5.0	14 52 43.8	813.0485	0.4265934	Hind.
103 23 20.1	7 8 6.2	5 6 4.4	977.63246	0.3732206	Leveau.
141 39 24.5	5 20 3.2	11 1 8.5	858.1895	0.4109489	Farley.
138 47 54.7	14 47 59.3	11 35 3.1	939.1860	0.3848366	R. Luther.
260 33 44.3	5 28 1.2	13 20 50.2	962.5828	0.3777123	Riem.
110 17 16.7	5 53 7.3	9 0 54.4	1086.3382	0.3426943	Downing.
68 31 35.2	5 36 0.3	7 5 2.4	962.3390	0.3777857	Lesser.
285 58 13.6	3 48 51.6	6 53 27.8	639.1669	0.4962615	E. Becker.
125 23 31.9	4 37 51.4	5 44 1.0	923.9058	0.3895859	R. Luther.
235 34 41.7	8 23 17.7	12 38 44.9	994.8347	0.3681705	Brünnow.
43 11 37.6	16 32 24.3	4 59 48.7	857.9471	0.4110307	Samter.
87 5 6.2	9 7 32.0	9 20 51.3	851.4287	0.4132389	Maywald.
293 52 33.3	11 44 15.8	10 47 45.6	825.46059	0.4222068	Kamienstschikoff.
150 39 24.8	3 4 25.9	7 50 18.3	710.5554	0.4656058	Schubert.
125 8 54.2	5 36 33.4	7 40 4.2	913.55093	0.392849	Maywald.
150 3 49.7	10 9 16.9	12 34 20.2	1020.1198	0.3609036	Schubert.
211 14 7.0	1 32 59.8	9 7 17.0	929.98741	0.387686	Berberich.
206 49 40.3	0 41 7.9	8 17 46.2	949.0005	0.3818268	Küstner.
80 27 48.5	3 5 9.5	9 19 44.6	933.5544	0.3865780	Lesser.
66 41 31.2	13 43 38.1	5 38 34.5	714.4288	0.4640317	Berberich.
67 58 18.4	10 13 3.3	13 32 59.4	833.5369	0.4193879	Schubert.
35 37 12.3	0 48 2.2	7 49 43.5	641.70063	0.4951161	Krueger.
214 22 20.9	21 36 40.9	14 39 21.4	954.0992	0.3802754	Berberich.
45 53 56.4	3 35 2.4	4 55 41.9	819.36947	0.424351	P. Neugebauer.
93 51 20.1	1 35 30.4	10 0 56.0	986.6944	0.3705493	Hoppe.
144 39 14.6	9 23 3.0	8 45 42.3	767.28160	0.443368	v. d. Groeben.
356 40 46.5	6 7 4.6	4 15 25.3	869.0352	0.4073128	E. Becker.
308 25 1.9	2 6 2.7	7 21 5.1	975.3144	0.3739080	Günther.
31 53 23.2	26 28 7.0	12 52 34.7	635.0803	0.4981187	Schubert.
220 42 55.2	5 28 49.9	4 45 43.1	852.5880	0.4128449	Lesser.
9 15 35.3	1 55 20.3	19 41 13.8	731.7057	0.4571134	Newcomb.
184 58 12.9	5 27 21.7	6 4 35.9	805.6011	0.4292575	Auwers.
355 9 38.6	8 4 42.7	12 49 14.4	683.93668	0.4766605	Tietjen.
359 15 7.6	18 39 44.0	17 26 19.0	777.3458	0.4395950	Schubert.
7 56 30.9	3 6 15.8	10 10 31.4	826.33974	0.421899	R. Luther.
296 37 59.5	6 57 55.1	8 53 45.4	781.8518	0.4379215	Berberich.
157 33 8.6	10 22 6.9	6 23 16.8	769.6407	0.4424791	Tietjen.
93 34 54.2	4 15 48.4	2 40 13.6	1039.3353	0.3555006	Schubert.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
41 Daphne . .	Jan. 27	10.1	10.5	7.0	1897 Okt. 6.0	1910.0	338° 8′ 41.4″	41° 50′ 23.8″
42 Isis	—	—	10.4	7.7	1910 Sept. 29.0	1910.0	38 28 10.7	234 56 28.5
43 Ariadne . .	—	—	10.0	7.9	1897 Okt. 6.0	1910.0	80 15 48.4	13 58 23.0
44 Nysa	Sept. 16	10.1	9.8	7.1	1891 April 1.0	1910.0	101 29 32.1	340 33 5.3
45 Eugenia . .	Juni 23	10.3	10.7	7.3	1890 Nov. 12.0	1910.0	180 7 31.7	82 43 5.7
46 Hestia . . .	—	—	10.6	7.7	1910 Nov. 28.0	1910.0	68 8 1.2	173 7 5.8
47 Aglaja . . .	Okt. 18	10.8	11.2	7.5	1911 Okt. 14.0	1910.0	54 33 57.1	312 3 27.2
48 Doris	Juni 24	11.2	10.9	6.8	1890 Sept. 13.0	1910.0	277 3 7.4	251 36 27.2
49 Pales	Juli 23	10.9	11.0	7.0	1898 März 15.0	1910.0	133 1 8.6	104 17 27.1
50 Virginia . .	März 8	12.9	11.7	8.5	1890 April 6.0	1910.0	193 9 42.2	196 47 34.7
51 Nemausa . .	Dez. 19	9.9	9.8	7.3	1889 Nov. 17.0	1910.0	254 26 43.1	358 30 22.4
52 Europa . . .	—	—	10.3	6.2	1891 April 1.0	1910.0	65 39 33.0	335 59 4.0
53 Kalypso . .	Sept. 26	11.4	11.5	8.4	1911 Sept. 24.0	1910.0	288 56 45.5	310 40 36.6
54 Alexandra .	Mai 8	10.3	10.9	7.6	1884 Aug. 15.0	1910.0	316 55 13.5	341 53 36.7
55 Pandora . .	März 17	11.5	10.8	7.4	1885 Jan. 22.0	1910.0	263 33 12.6	0 46 56.4
56 Melete . . .	Juni 2	10.0	11.3	8.2	1900 Dez. 30.0	1910.0	157 16 2.5	101 6 0.1
57 Mnemosyne	—	—	10.7	6.5	1910 Dez. 18.0	1910.0	21 26 32.5	207 19 49.8
58 Concordia .	Nov. 12	11.8	11.6	8.3	1865 Jan. 7.0*)	d. E.	21 24 4.2	27 50 14.7
59 Elpis	Jan. 13	10.9	10.9	7.6	1865 Jan. 7.0	1910.0	334 18 57.1	207 58 24.0
60 Echo	Juni 21	12.0	11.1	8.5	1897 Okt. 6.0	1910.0	272 15 22.3	267 57 40.8
61 Danaë . . .	Juni 26	10.6	11.0	7.1	1900 April 14.0	1910.0	244 20 50.4	8 27 28.4
62 Erato	—	—	12.3	8.2	1877 Sept. 21.0	1910.0	358 43 44.3	273 18 12.0
63 Ausonia . .	Dez. 2	10.6	9.9	7.3	1898 Febr. 3.0	1910.0	250 44 8.5	292 55 12.7
64 Angelina . .	Aug. 27	11.0	10.5	7.2	1898 Okt. 1.0	1910.0	239 38 51.2	173 35 10.2
65 Cybele . . .	Jan. 28	11.3	11.0	6.4	1909 Dez. 23.0	1910.0	181 16 46.7	95 55 15.9
66 Maja	—	—	12.2	9.0	1897 Juli 18.0	1910.0	277 24 16.1	40 10 30.9
67 Asia	Nov. 27	11.5	11.2	8.5	1897 Dez. 5.0	1910.0	201 20 50.1	103 20 15.8
68 Leto	Febr. 18	11.4	10.5	7.0	1911 Febr. 16.0	1910.0	151 23 10.8	301 18 35.1
69 Hesperia . .	Dez. 31	9.7	10.7	6.8	1889 Jan. 1.0	1910.0	182 52 57.9	284 43 32.6
70 Panopaea .	Febr. 26	11.7	10.9	7.8	1890 Dez. 22.0	1910.0	305 21 16.5	252 49 41.9
71 Niobe . . .	Juli 31	10.4	10.7	7.3	1911 Juli 26.0	1910.0	63 22 32.3	265 10 5.5
72 Feronia . .	—	—	11.2	8.9	1897 Dez. 25.0	1910.0	166 4 16.3	100 27 8.7
73 Klytia . . .	Juli 16	12.2	12.0	8.8	1898 Aug. 2.0	1910.0	244 29 53.1	52 42 38.5
74 Galatea . .	März 14	12.9	11.8	8.3	1897 Febr. 28.0	1910.0	148 4 45.2	170 59 36.6
75 Eurydike . .	—	—	11.6	8.4	1897 Okt. 26.0	1910.0	32 23 13.9	335 34 7.7
76 Freia	Juli 23	12.6	12.0	7.4	1911 Juli 6.0	1910.0	222 10 32.0	235 24 48.2
77 Frigga . . .	—	—	11.1	7.9	1897 Okt. 6.0	1910.0	331 13 52.7	56 51 43.2
78 Diana . . .	Juli 29	11.7	10.6	7.5	1907 Aug. 16.0	1910.0	206 4 36.9	149 44 7.9
79 Eurynome .	März 30	11.3	10.5	7.8	1911 März 28.0	1910.0	129 21 59.1	198 40 13.2
80 Sappho . . .	—	—	10.6	8.2	1896 Okt. 11.0	1910.0	19 11 20.2	136 54 7.7

*) Mittlere Elemente.

☊	*i*	φ	μ	Log. *a*	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
179 2 48.7	15 55 33.5	15 26 36.4	770.4586	0.4421715	Berberich.
84 18 9.5	8 33 1.0	12 48 4.4	929.11108	0.3879594	L. Becker.
264 53 57.0	3 27 42.6	9 38 32.6	1084.7577	0.3431159	Prey.
131 22 43.4	3 42 0.7	8 48 10.9	941.7363	0.3840515	Powalky.
148 15 53.9	6 35 18.5	4 44 11.6	791.0695	0.4345280	Richter.
181 21 7.7	2 17 38.7	9 38 0.9	884.45090	0.4022219	Karlinski.
3 53 57.8	5 0 30.7	7 27 42.2	725.32891	0.459648	P. Neugebauer.
184 50 59.0	6 30 23.4	3 30 16.7	645.5014	0.4934063	Powalky.
289 50 20.8	3 8 28.3	12 52 28.4	648.4530	0.4920854	Powalky.
173 55 41.5	2 48 27.0	16 45 58.0	823.5561	0.4228757	Powalky.
176 1 8.9	9 57 11.5	3 51 23.3	975.1593	0.3739540	Berberich.
129 57 19.4	7 26 14.9	6 31 44.8	651.8134	0.4905889	Murmann.
143 53 57.0	5 8 8.4	11 49 8.2	837.57580	0.417988	Tietjen.
314 2 22.8	11 47 37.5	11 31 49.2	795.5362	0.4328978	Schultz.
11 13 41.5	7 13 26.0	8 18 56.3	774.4612	0.4406713	A. Moeller.
194 10 59.0	8 3 9.4	13 24 5.5	846.1114	0.4150527	R. Luther.
200 4 24.1	15 11 48.8	6 40 10.3	634.42086	0.4984194	Adolph.
161 19 50.3	5 1 50.5	2 26 21.8	799.5964	0.4314238	Oppolzer.
170 58 0.1	8 36 53.1	6 44 2.7	793.9788	0.4334651	Oppolzer.
192 2 8.5	3 35 2.2	10 34 22.7	958.2244	0.3790263	C. H. F. Peters.
334 23 28.2	18 15 3.1	9 29 23.8	688.3554	0.4747959	R. Luther.
126 6 30.1	2 12 15.4	10 6 47.4	642.5659	0.4947260	Oppolzer.
338 6 39.1	5 47 15.9	7 17 58.7	957.1671	0.3793459	Tietjen.
311 1 40.8	1 19 37.6	7 17 59.7	807.9036	0.4284314	Oppolzer.
158 50 52.9	3 28 52.3	5 45 43.0	557.40783	0.5358890	Fritsche.
8 25 31.5	3 5 3.2	10 3 43.4	824.3940	0.422582	Maywald.
203 4 10.5	5 59 10.5	10 47 54.5	942.3560	0.3838611	Frischauf.
44 46 13.4	7 58 31.0	10 46 4.3	765.33084	0.444105	Th. Wolff.
186 49 25.9	8 29 47.6	9 39 2.0	689.6731	0.4742422	Kowalczyk.
48 23 54.9	11 38 23.5	10 22 15.9	838.9960	0.4174978	Richter.
316 23 40.2	23 16 37.1	10 9 59.7	776.58498	0.439892	P. Neugebauer.
208 2 57.2	5 23 52.3	6 56 42.6	1040.3544	0.3552169	C. H. F. Peters.
7 43 24.2	2 24 17.7	2 34 3.9	816.0117	0.4255401	Powalky.
197 53 4.9	4 0 22.1	13 43 0.6	764.6230	0.4443728	Maywald.
0 6 45.0	4 59 55.9	17 45 42.2	812.4299	0.4268137	Stockwell.
212 4 0.9	2 3 7.8	9 58 25.8	564.54419	0.532206	Murmann.
2 12 17.7	2 27 34.5	7 38 43.5	813.8298	0.4263153	Plath.
333 52 20.2	8 40 20.6	11 51 36.2	835.7718	0.4186116	v. Dubjago.
206 38 50.2	4 35 55.8	10 59 25.5	927.85318	0.388352	Lachmann.
218 49 35.1	8 37 17.6	11 34 29.9	1020.1089	0.3609067	P. V. Neugebauer.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
81 Terpsichore	Juni 4	12.7	11.8	8.2	1897 Juli 18.0	1910.0	260° 37′ 9.1″	46° 14′ 50.5″
82 Alkmene . .	—	—	11.2	7.8	1910 Nov. 28.0	1910.0	318 1 32.9	106 43 5.1
83 Beatrix . . .	Juli 2	11.2	11.3	8.6	1891 Jan. 11.0	1910.0	295 16 6.4	163 24 40.4
84 Klio	März 3	12.6	11.3	8.8	1911 März 28.0	1910.0	191 56 11.7	12 43 47.9
85 Io	März 10	11.8	10.9	7.7	1889 Febr. 10.0	1910.0	180 9 35.1	120 16 17.9
86 Semele . . .	Febr. 23	12.8	12.4	8.3	1896 Mai 4.0	1910.0	203 38 25.9	300 25 58.4
87 Sylvia . . .	April 22	12.2	11.9	7.2	1898 April 24.0	1910.0	236 42 47.7	265 34 33.5
88 Thisbe . . .	März 17	11.3	10.8	7.4	1889 Dez. 27.0	1910.0	24 33 30.8	30 50 45.1
89 Julia	Sept. 5	8.9	10.1	7.1	1889 Dez. 27.0	1910.0	237 15 2.3	42 50 18.7
90 Antiope . .	Okt. 21	11.4	11.6	7.5	1911 Nov. 3.0	1910.0	64 18 46.0	236 46 30.9
91 Aegina . . .	Juli 20	11.7	10.8	7.7	1897 Febr. 8.0	1910.0	54 32 6.9	71 55 32.8
92 Undina . . .	April 3	11.3	10.9	6.7	1904 Febr. 13.0	1910.0	142 28 50.2	220 34 12.4
93 Minerva . .	Febr. 17	11.3	10.8	7.4	1897 Jan. 19.0	1910.0	213 22 8.2	270 52 4.5
94 Aurora . . .	Juli 13	11.5	11.3	7.1	1883 Juli 12.0	1910.0	256 3 4.3	45 22 37.9
95 Arethusa . .	—	—	11.3	7.3	1910 Nov. 28.0	1910.0	20 31 41.1	148 28 54.5
96 Aegle . . .	März 13	10.7	11.4	7.4	1897 Sept. 16.0	1910.0	182 59 36.0	200 34 30.1
97 Klotho . . .	—	—	10.6	7.4	1898 Jan. 14.0	1910.0	21 4 31.9	264 36 8.8
98 Ianthe . . .	—	—	12.7	9.4	1894 Jan. 15.0	1910.0	331 2 34.3	154 49 36.4
99 Dike	—	—	14	10.5	1868 Juni 5.0	1910.0	350 36 11	198 52 56
100 Hekate . . .	Juni 9	11.1	11.9	7.8	1898 Jan. 14.0	1910.0	156 19 38.0	176 49 53.2
101 Helena . . .	—	—	10.7	7.6	1897 Aug. 27.0	1910.0	8 56 38.1	343 58 24.2
102 Miriam . . .	Juli 9	11.7	12.6	9.4	1898 Juli 13.0	1910.0	319 11 42.8	143 38 29.9
103 Hera	April 6	10.5	10.2	6.9	1897 Febr. 8.0	1910.0	173 11 18.9	185 58 53.7
104 Klymene . .	Mai 21	12.9	12.2	8.0	1897 Dez. 25.0	1910.0	35 9 54.6	20 0 49.1
105 Artemis . .	April 15	10.1	11.1	8.5	1897 Aug. 27.0	1910.0	69 55 41.8	54 43 26.1
106 Dione . . .	April 21	12.2	11.3	7.2	1910 Febr. 21.0	1910.0	108 23 21.0	324 54 49.2
107 Camilla . . .	Mai 26	11.4	11.2	6.5	1891 April 21.0	1910.0	97 7 57.4	293 57 59.6
108 Hecuba . . .	Aug. 16	11.7	11.7	7.4	1911 Sept. 24.0	1910.0	159 37 59.5	172 26 42.4
109 Felicitas . .	April 2	12.8	12.0	8.7	1898 Jan. 14.0	1910.0	115 33 32.5	52 23 6.6
110 Lydia . . .	April 25	10.7	10.5	7.1	1901 Febr. 13.0	1910.0	150 32 10.1	281 13 26.2
111 Ate	Juni 3	11.7	11.3	8.2	1890 Jan. 16.0	1910.0	91 26 4.4	163 34 48.8
112 Iphigenia .	Mai 24	11.5	11.5	8.8	1897 Dez. 25.0	1910.0	88 12 11.4	14 7 51.7
113 Amalthea .	Jan. 30	10.8	11.0	8.4	1911 Febr. 6.0	1910.0	301 3 26.8	76 39 41.9
114 Kassandra .	Okt. 2	11.6	11.1	7.8	1889 Sept. 18.0	1910.0	211 30 3.4	348 48 30.0
115 Thyra . . .	Juni 23	11.0	10.4	7.8	1897 Okt. 6.0	1910.0	340 57 26.1	94 2 38.0
116 Sirona . . .	Mai 25	10.6	10.7	7.3	1889 Juni 10.0	1910.0	158 3 13.7	89 6 38.1
117 Lomia . . .	Mai 11	11.5	11.4	7.5	1897 Okt. 6.0	1910.0	332 35 55.4	48 38 20.1
118 Peitho . . .	Juni 19	11.7	10.8	8.1	1911 Juli 6.0	1910.0	196 18 53.3	31 17 7.0
119 Althaea . .	Nov. 6	10.1	10.6	7.5	1898 Aug. 2.0	1910.0	314 33 34.0	168 34 50.1
120 Lachesis . .	Mai 4	11.4	11.7	7.6	1897 Nov. 15.0	1910.0	202 19 20.3	238 31 10.8

☊	i	φ	μ	Log. a	Autorität
° ' "	° ' "	° ' "	"		
2 34 20.8	7 55 5.5	12 11 52.3	736.4126	0.4552569	Maywald.
26 34 35.4	2 51 1.9	12 44 1.4	772.27663	0.4414891	W. Luther.
27 47 22.4	4 59 49.4	4 51 24.3	935.9122	0.3858476	E. Becker.
327 32 15.6	9 21 58.9	13 43 36.3	977.79374	0.373173	P. Neugebauer.
203 55 21.1	11 53 47.5	11 10 33.7	821.0524	0.4237571	v. d. Groeben.
88 2 1.0	4 47 35.9	12 46 53.6	650.4530	0.4911939	Riem.
75 15 57.6	10 53 1.7	5 26 44.5	545.3288	0.5422321	v. d. Groeben.
277 51 59.5	5 14 54.8	9 26 6.4	771.1774	0.4419015	Kowalczyk.
312 0 55.5	16 12 32.0	10 33 29.3	871.5645	0.4064714	Th. Wolff.
70 49 29.1	2 15 27.9	8 47 5.7	632.48240	0.499306	Maywald.
11 4 13.0	2 8 25.1	6 7 10.0	850.8763	0.4134268	Heuer.
102 50 42.0	9 56 23.7	5 22 41.6	622.67957	0.5038280	Anderson.
5 4 31.2	8 35 28.0	8 1 55.7	775.6316	0.4402341	P. Lehmann.
4 33 17.4	8 4 18.6	4 44 18.3	630.6584	0.5001416	Leppig.
244 5 29.9	12 55 44.5	8 53 6.5	661.08804	0.4864982	Schur.
322 47 10.3	16 2 24.5	7 39 35.3	663.1502	0.4855965	Schulhof.
160 57 9.4	11 45 29.3	14 51 9.7	813.5778	0.4264050	Maywald.
354 27 5.1	15 33 47.6	10 49 11.3	805.3086	0.4293629	Riem.
42 17 51	13 53 30	13 47 30	758.662	0.44664	Loewy u. Tisserand.
128 26 39.4	6 23 7.5	9 31 58.5	653.5823	0.4898043	Stark.
343 42 52.6	10 10 32.8	8 1 10.2	854.8620	0.4120737	v. d. Groeben.
211 39 13.0	5 5 24.5	14 44 31.2	817.8380	0.4248929	C. H. F. Peters.
136 26 1.5	5 24 33.0	4 30 21.3	798.0990	0.4319665	Leveau.
43 13 29.2	2 52 54.6	8 32 48.6	632.5948	0.4992540	Berberich.
188 14 55.0	21 30 55.0	10 6 59.0	970.4600	0.3753527	A. Leman.
63 10 51.0	4 35 55.0	9 14 4.3	625.17474	0.5026701	Berberich.
176 14 1.0	9 51 39.6	3 56 39.0	544.1827	0.5428412	Matthiessen.
352 27 26.5	4 23 34.1	6 1 26.9	617.91149	0.506054	Schulhof.
4 42 21.8	8 1 1.3	17 12 53.0	799.9088	0.4313108	v. d. Groeben.
57 14 3.9	5 59 12.9	4 32 38.7	785.37505	0.436620	Sternberg.
306 39 51.1	4 56 20.2	5 58 35.2	849.9712	0.4137349	Holetschek.
324 13 23.0	2 37 9.3	7 25 29.0	934.8048	0.3861905	Tietjen.
123 18 26.4	5 2 18.1	5 0 34.9	969.12035	0.3757526	W. Luther.
164 40 55.6	4 53 53.8	7 55 32.6	810.5220	0.4274945	Anton.
309 19 50.6	11 35 36.3	11 5 7.8	966.3219	0.3765898	Watson.
64 42 11.5	3 35 10.3	8 3 59.9	770.3736	0.442203	H. Oppenheim.
349 41 19.0	14 56 21.2	1 31 51.9	685.2178	0.4761187	Tietjen.
47 40 5.0	7 46 40.4	9 27 2.0	932.77693	0.386819	Holetschek.
203 58 4.8	5 44 15.8	4 42 49.9	855.7364	0.4117777	Berberich.
342 45 48.8	7 0 16.6	3 30 1.0	645.4399	0.4934339	Plath.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
121 Hermione . .	Juni 26	11.1	11.2	6.6	1910 April 22.0	1910.0	222 43 6.5	285 25 49.8
122 Gerda	April 26	11.2	11.5	7.2	1911 Mai 7.0	1910.0	24 32 10.8	11 7 46.8
123 Brunhild . .	Juni 5	12.4	11.8	8.5	1898 Juni 23.0	1910.0	210 35 25.0	122 14 17.2
124 Alkeste . . .	Nov. 1	10.1	10.3	7.1	1890 Dez. 2.0	1910.0	180 26 7.9	58 14 32.3
125 Liberatrix . .	Febr. 15	11.4	11.2	7.8	1897 Jan. 19.0	1910.0	202 46 5.6	104 32 55.5
126 Velleda . . .	—	—	11.5	8.8	1899 Dez. 15.0	1910.0	81 58 56.5	325 47 25.0
127 Johanna . .	April 6	10.4	10.5	7.1	1890 Okt. 3.0	1910.0	251 23 46.9	90 26 21.5
128 Nemesis . .	April 17	11.3	10.6	7.2	1897 Jan. 19.0	1910.0	144 20 2.3	300 34 0.1
129 Antigone . .	—	—	10.3	6.6	1897 Jan. 19.0	1910.0	253 10 0.2	103 42 26.3
130 Elektra . . .	Jan. 15	10.5	10.6	6.5	1898 Aug. 22.0	1910.0	337 5 55.3	233 46 1.6
131 Vala	Juni 10	11.8	12.2	9.5	1898 Dez. 20.0	1910.0	288 37 28.9	155 56 24.1
132 Aethra . . .	—	—	10.9	8.0	1895 Nov. 30.5	1910.0	330 47 37.2	252 14 56.3
133 Cyrene . . .	Okt. 12	11.8	11.3	7.3	1898 Jan. 14.0	1910.0	280 4 53.4	283 57 33.7
134 Sophrosyne .	—	—	11.1	8.1	1910 Okt. 19.0	1910.0	317 14 38.0	82 13 46.4
135 Hertha . . .	—	—	10.5	7.8	1898 Okt. 1.0	1910.0	33 3 56.2	337 7 56.5
136 Austria . . .	—	—	11.2	8.9	1898 März 15.0	1910.0	211 14 20.2	130 28 54.5
137 Meliboea . .	Jan. 13	12.8	11.8	7.7	1898 Nov. 10.0	1910.0	80 12 0.8	105 35 51.7
138 Tolosa . . .	Jan. 11	12.6	11.8	9.1	1896 Febr. 14.0	1910.0	190 23 49.0	258 3 38.4
139 Juewa	Okt. 2	11.6	10.9	7.4	1898 Nov. 30.0	1910.0	299 0 11.9	162 8 50.0
140 Siwa	Dez. 33	12.4	11.4	8.0	1898 Okt. 1.0	1910.0	173 35 23.3	193 12 17.2
141 Lumen . . .	Mai 6	12.3	11.4	8.2	1890 Aug. 24.0	1910.0	321 2 54.7	54 13 35.4
142 Polana . . .	Nov. 21	12.9	12.2	9.5	1896 Dez. 10.0	1910.0	211 12 47.7	289 58 40.0
143 Adria	—	—	12.4	9.0	1891 Okt. 18.0	1910.0	160 45 41.3	248 47 46.1
144 Vibilia . . .	—	—	10.7	7.5	1888 Juli 18.0	1910.0	289 54 28.9	290 45 10.7
145 Adeona . . .	Sept. 10	11.9	11.3	8.1	1898 Aug. 22.0	1910.0	240 12 41.7	40 33 3.5
146 Lucina . . .	Juni 27	10.8	11.1	7.7	1898 Aug. 2.0	1910.0	89 1 10.2	140 57 36.7
147 Protogeneia .	—	—	12.5	8.4	1898 Sept. 11.0	1910.0	348 52 58.8	122 45 45.6
148 Gallia	Juni 5	11.8	11.0	7.5	1910 April 2.0	1910.0	135 1 22.3	251 2 43.2
149 Medusa . . .	—	—	12.9	10.0	1910 Juli 31.0	1910.0	262 49 18.4	249 52 9.4
150 Nuwa	Okt. 10	10.8	11.6	7.7	1893 März 1.0	1910.0	155 36 25.8	146 41 42.7
151 Abundantia	Mai 20	11.8	11.9	8.8	1898 März 15.0	1910.0	9 18 20.9	130 21 2.4
152 Atala	März 31	12.3	12.2	8.1	1899 Jan. 29.0	1910.0	27 31 7.9	42 37 0.7
153 Hilda	März 28	12.6	12.6	7.3	1911 März 28.0	1910.0	285 17 29.0	54 13 51.1
154 Bertha . . .	—	—	11.2	7.0	1910 Dez. 18.0	1910.0	260 14 33.6	164 40 8.3
155 Scylla	—	—	13.5	9.8	1875 Nov. 8.5	1910.0	339 4 47	39 9 57
156 Xanthippe .	Nov. 5	12.4	11.3	7.9	1903 Jan. 29.0	1900.0	210 16 9.4	334 33 43.4
157 Dejanira . .	Juli 19	14.7	13.7	10.6	1904 Nov. 17.5	1904.0	330 35 43.9	45 39 12.1
158 Koronis . . .	April 9	12.6	12.3	8.7	1898 Aug. 22.0	1910.0	278 50 53.8	138 43 15.9
159 Aemilia . . .	Mai 27	12.6	12.3	8.2	1897 Dez. 5.0	1910.0	324 40 17.3	331 52 54.3
160 Una	—	—	11.8	8.4	1897 Dez. 25.0	1910.0	33 30 8.8	46 47 30.1

☊	i	φ	μ	Log. a	Autorität
75° 41′ 3″.6	7° 33′ 28″.8	8° 15′ 19″.1	555″.12285	0.5370783	Berberich.
178 46 22.6	1 36 36.0	3 11 10.4	614.37381	0.507714	Lange.
308 38 28.5	6 25 27.6	7 1 21.7	802.5894	0.4303421	Berberich.
188 37 15.4	2 55 29.2	4 27 41.2	832.2976	0.4198186	Hall sen.
169 36 18.8	4 37 57.0	4 29 45.0	780.9349	0.4382611	Lange.
23 27 7.7	2 56 26.5	6 3 52.3	931.5192	0.3872099	Heuer.
31 53 43.8	8 15 42.7	3 47 29.9	775.8987	0.4401344	Maywald.
76 45 7.8	6 15 8.3	7 13 52.8	778.9624	0.4389934	de Ball.
137 58 12.8	12 10 1.8	12 15 18.0	730.5585	0.4575677	Austin.
146 16 41.6	22 58 1.8	12 29 21.9	646.4298	0.4929901	Powalky.
65 37 21.8	4 57 47.1	3 51 52.5	935.8550	0.3858654	Berberich.
260 11 30.0	23 32 20.0	19 21 13.8	903.6882	0.3959920	W. Luther.
321 25 52.7	7 13 50.2	8 2 47.1	662.6045	0.4858348	v. d. Groeben.
346 13 52.6	11 36 53.9	6 42 22.6	864.45983	0.4088412	Maywald.
344 13 36.6	2 18 34.4	11 45 17.6	937.0637	0.3854917	Maywald.
186 20 58.5	9 33 12.0	4 52 0.8	1025.7532	0.3593092	H. Oppenheim.
203 47 40.2	13 21 7.8	12 46 22.0	645.4607	0.4934245	Lange.
54 53 56.5	3 13 22.0	9 16 35.8	924.9117	0.3892709	v. d. Groeben.
2 33 1.8	10 55 19.7	9 57 48.4	764.0768	0.4445797	Berberich.
107 14 12.9	3 11 29.4	12 31 19.9	786.6737	0.4361413	v. d. Groeben.
319 28 26.5	11 58 39.3	12 16 57.4	814.6615	0.4260196	Berberich.
292 1 39.9	2 14 29.1	7 44 10.6	943.5246	0.3835023	L. Becker.
333 54 46.0	11 30 13.3	4 8 20.2	773.3958	0.4410699	von Haerdtl.
77 1 15.3	4 48 16.9	13 28 14.3	819.4849	0.4243104	Powalky.
77 55 52.9	12 41 10.3	8 24 20.6	812.2212	0.4268882	Tietjen.
84 26 43.8	13 5 8.8	3 39 14.6	791.4186	0.4344003	Berberich.
251 21 33.7	1 54 15.5	2 2 8.6	638.8069	0.4964247	L. Becker.
145 15 21.7	25 19 6.9	10 34 1.9	767.77183	0.4432035	L. Becker.
158 47 35.8	0 55 46.4	3 52 47.6	1106.37588	0.3374026	Lange.
207 50 0.6	2 8 18.4	7 20 7.3	689.2534	0.474418	H. Oppenheim.
39 1 12.0	6 28 21.2	2 10 51.3	850.1245	0.4136827	Riem.
41 25 0.5	12 13 21.2	4 12 12.4	637.2942	0.4971111	Lange.
228 20 11.4	7 51 56.0	9 19 1.0	449.45588	0.598213	Kühnert.
37 7 16.3	20 58 23.8	5 2 23.5	624.40618	0.5030263	Anton.
43 20 30	14 4 31	14 49 28	713.7875	0.464292	Schulhof.
242 43 10.3	9 39 1.8	12 55 24.2	785.6858	0.436505	Ebell.
62 9 28.7	12 5 20.1	11 30 39.9	856.508	0.411518	Sternberg.
281 12 13.9	1 0 0.7	3 17 38.9	730.4848	0.4575969	Maywald.
135 12 3.7	6 4 55.0	5 37 45.9	647.4107	0.492551	Berberich.
9 24 54.3	3 51 22.4	3 45 8.1	787.7290	0.435753	P. Neugebauer.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
161 Athor	—	—	11.0	8.4	1896 Dez. 30.0	1910.0	142° 39′ 1″.6	291° 48′ 34″.3
162 Laurentia . .	—	—	12.3	8.4	1899 Sept. 6.0	1910.0	215 30 54.3	106 2 42.9
163 Erigone . . .	—	—	11.5	9.0	1907 Nov. 4.0	1910.0	334 40 45.7	295 29 18.5
164 Eva	Dez. 14	10.4	11.5	8.3	1910 Juni 1.0	1910.0	274 53 39.9	282 17 32.6
165 Loreley . . .	Dez. 29	11.5	11.1	7.0	1897 April 9.0	1910.0	290 21 20.7	342 30 12.7
166 Rhodope . . .	Juli 18	12.3	12.5	9.2	1897 Juni 8.0	1910.0	213 52 27.9	261 28 49.8
167 Urda	Dez. 19	13.2	13.0	9.4	1898 Jan. 14.0	1910.0	197 17 5.7	121 7 43.9
168 Sibylla	April 21	12.0	11.6	7.1	1899 Mai 29.0	1910.0	218 22 50.2	174 26 31.9
169 Zelia	März 17	11.9	11.3	8.8	1890 Aug. 4.0	1910.0	328 1 8.3	332 10 48.8
170 Maria	Juli 2	12.0	11.7	8.7	1910 März 13.0	1910.0	66 0 9.6	156 19 5.9
171 Ophelia . . .	März 26	11.6	12.1	8.0	1897 Okt. 6.0	1910.0	236 0 17.5	50 27 33.1
172 Baucis	Juni 20	10.0	10.4	7.8	1889 Juni 30.0	1910.0	316 43 41.4	356 48 28.3
173 Ino	Febr. 7	11.5	11.0	7.6	1897 Jan. 19.0	1910.0	71 13 19.6	224 39 41.9
174 Phaedra . . .	Sept. 20	11.7	11.6	8.0	1897 Okt. 6.0	1910.0	129 24 10.1	286 21 18.9
175 Andromache	Juli 4	11.4	12.3	8.0	1908 Jan. 3.0	1910.0	110 44 33.6	302 27 21.5
176 Iduna . . .	Okt. 1	11.0	12.1	7.9	1910 Juli 11.0	1910.0	271 34 16.1	182 41 34.5
177 Irma	Febr. 6	12.7	12.4	9.0	1897 Jan. 19.0	1910.0	71 42 48.0	33 16 9.9
178 Belisana . . .	Aug. 5	11.8	12.0	9.2	1910 März 13.0	1910.0	273 56 20.5	212 28 52.4
179 Klytæmnestra	Mai 13	11.8	11.5	7.7	1897 Okt. 6.0	1910.0	14 32 37.3	100 30 2.0
180 Garumna . .	Juli 18	14.1	13.3	9.9	1899 Nov. 5.0	1910.0	308 53 34.6	169 12 38.1
181 Eucharis . .	Febr. 6	10.4	11.5	7.4	1887 Okt. 19.0	1910.0	305 49 36.6	310 26 20.5
182 Elsa	—	—	11.0	8.3	1897 März 20.0	1910.0	102 51 45.1	308 16 41.4
183 Istria	März 14	13.1	12.6	9.1	1900 Dez. 10.0	1910.0	15 39 20.2	262 21 44.2
184 Dejopeja . . .	—	—	12.4	8.2	1910 Dez. 18.0	1910.0	244 34 37.1	217 10 44.9
185 Eunike . . .	Juni 15	10.7	10.0	6.6	1889 Aug. 29.0	1910.0	328 9 2.3	221 34 37.8
186 Celuta	Mai 10	11.4	11.4	8.9	1897 Aug. 27.0	1910.0	2 39 38.6	313 36 27.2
187 Lamberta . .	Okt. 2	12.4	11.4	8.0	1897 Aug. 27.0	1910.0	94 42 30.1	192 2 46.6
188 Menippe . . .	Okt. 4	12.5	13.0	9.6	1897 Sept. 1.0	1910.0	23 1 52.2	66 36 36.3
189 Phthia	März 19	11.8	11.5	8.8	1900 Mai 24.0	1910.0	234 17 27.2	166 0 10.0
190 Ismene . . .	—	—	12.0	6.7	1910 Nov. 8.0	1910.0	327 17 17.8	286 44 42.4
191 Kolga	Mai 4	12.5	12.0	8.3	1897 Juli 18.0	1910.0	271 52 28.4	224 21 12.1
192 Nausikaa . .	—	—	9.3	6.7	1888 Juli 25.0	1910.0	324 20 18.4	27 40 24.5
193 Ambrosia . .	—	—	12.2	9.2	1879 März 25.5	1910.0	68 48 35.8	79 36 55.8
194 Prokne . . .	—	—	10.5	7.4	1899 Jan. 29.0	1910.0	130 9 24.2	160 37 18.4
195 Eurykleia . .	Dez. 15	12.1	12.6	8.9	1896 Nov. 20.0	1910.0	289 6 21.8	118 7 2.1
196 Philomela . .	Jan. 12	10.6	10.3	6.3	1901 April 9.0	1910.0	240 25 11.6	237 19 45.5
197 Arete	Juni 24	12.0	12.7	9.3	1900 Jan. 24.0	1910.0	134 40 9.5	243 28 47.4
198 Ampella . . .	—	—	11.1	8.3	1910 Juli 31.0	1910.0	314 11 54.5	88 1 12.0
199 Byblis	Jan. 4	13.2	12.4	8.2	1909 Nov. 13.0	1910.0	138 47 14.4	171 8 9.7
200 Dynamene . .	Sept. 15	10.8	11.3	7.9	1888 Juli 25.0	1910.0	277 46 23.8	82 43 1.3

Ω	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
18 48 52.5	9 3 17.7	7 57 23.4	967.0645	0.3763675	Tietjen.
38 16 1.8	6 5 6.0	10 31 5.3	676.5719	0.4797951	Tietjen.
160 15 7.2	4 46 38.3	11 1 54.1	974.2162	0.3742342	Berberich.
77 25 24.6	24 20 38.1	20 22 0.7	830.75127	0.4205237	Richter.
304 11 19.1	11 12 5.0	3 54 10.6	641.1299	0.4953737	Samter.
129 39 27.9	12 1 54.8	12 13 13.9	806.7683	0.4288385	Richter.
166 38 10.8	2 10 45.6	1 59 3.7	736.5954	0.4551851	Lange.
209 23 56.1	4 36 6.5	4 21 54.0	571.6864	0.5285658	v. d. Groeben.
354 58 8.5	5 30 51.2	7 31 33.7	979.6462	0.3726249	Richter.
301 23 56.1	14 21 9.7	3 38 8.4	868.72749	0.4074153	Lange.
101 3 53.7	2 33 12.1	6 38 28.6	636.3859	0.4975241	Berberich.
332 11 35.0	10 2 10.4	6 32 18.8	965.9899	0.3766893	Berberich.
148 53 6.9	14 15 36.8	11 51 44.6	780.8006	0.4383110	Bečka.
328 48 32.4	12 6 32.9	8 23 43.8	734.0156	0.456201	H. Oppenheim.
25 26 12.4	3 10 33.3	11 4 20.9	611.29468	0.5091706	Berberich.
200 57 12.2	22 43 20.2	10 16 21.6	628.26359	0.5012431	P. Neugebauer.
349 34 1.8	1 26 55.3	13 32 58.0	768.8406	0.4427802	Richter.
51 1 8.7	1 54 28.5	2 34 36.4	919.16707	0.3910715	Berberich.
253 20 50.4	7 47 52.8	6 37 0.0	692.8578	0.472908	H. Oppenheim.
314 50 1.1	0 53 40.8	9 46 17.7	790.4612	0.4347507	v. d. Groeben.
145 7 22.1	18 35 23.6	12 40 26.5	643.5438	0.4942856	de Ball.
106 46 38.9	2 10 9.1	10 50 51.9	944.5132	0.3831990	Samter.
142 54 44.3	26 25 59.5	20 27 8.2	760.4634	0.4459522	Petrelius.
333 48 39.4	1 9 53.4	3 28 22.0	622.48092	0.5039204	Thraen.
154 3 8.4	23 14 21.7	7 11 14.1	782.8522	0.4375512	Bauschinger.
14 43 53.5	13 11 11.6	8 41 21.3	977.5884	0.3732337	Tietjen.
22 22 32.4	10 41 24.8	13 36 43.5	785.6152	0.4365311	A. Leman.
241 56 25.8	11 44 36.3	10 15 28.9	772.712	0.441326	Coniel.
203 32 11.1	5 8 54.2	2 4 18.4	924.2246	0.3894861	H. Oppenheim.
177 0 17.4	6 8 17.0	9 38 10.0	453.68733	0.5955000	Küstner.
159 59 7.7	11 29 25.6	5 13 5.0	720.0541	0.4617609	L. Becker.
343 33 25.4	6 51 40.6	14 9 22.7	952.4502	0.3807762	Lange.
351 40 33.1	11 38 46.5	16 34 52.0	858.2960	0.410913	A. Leman.
159 29 8.2	18 25 4.9	13 50 55.7	839.1447	0.4174465	Tietjen.
7 52 26.6	7 0 9.8	2 25 31.9	727.0481	0.4589623	Riem.
73 27 31.0	7 17 1.5	1 13 48.1	646.0377	0.4931658	P. V. Neugebauer.
82 10 10.5	8 49 20.8	9 22 12.5	782.6498	0.4376261	Lange.
268 24 5.6	9 18 6.5	13 8 54.7	920.04801	0.3907974	v. d. Groeben.
89 40 27.7	15 24 49.2	10 31 43.7	630.79505	0.5000789	Tietjen.
325 35 38.5	6 54 46.3	7 41 20.4	783.6017	0.4372741	Bauschinger.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
201 Penelope	—	—	11.9	8.6	1897 Nov. 15.0	1910.0	53° 1′ 33.0″	177° 43′ 4.8″
202 Chryseïs	Aug. 27	11.2	10.7	6.7	1896 Nov. 20.0	1910.0	296 12 57.2	355 17 24.9
203 Pompeja	Nov. 12	11.3	11.7	8.3	1899 Jan. 9.0	1910.0	65 39 8.5	53 45 33.1
204 Kallisto	—	—	12.0	8.7	1888 Nov. 2.0	1910.0	140 55 19.4	51 16 26.1
205 Martha	Sept. 5	12.5	12.7	9.2	1886 Febr. 26.0	1910.0	139 40 10.2	172 8 41.4
206 Hersilia	Nov. 6	11.8	12.0	8.6	1887 Juni 21.0	1910.0	184 57 36.2	300 24 35.6
207 Hedda	—	—	11.8	9.5	1898 Febr. 3.0	1910.0	280 15 16.2	190 38 50.0
208 Lacrimosa	März 14	12.1	12.1	8.4	1899 Nov. 25.0	1910.0	315 23 43.1	105 47 59.3
209 Dido	Juni 19	11.3	11.5	7.4	1897 Dez. 25.0	1910.0	222 32 56.9	249 39 35.2
210 Isabella	—	—	12.5	9.1	1897 Okt. 26.0	1910.0	358 48 23.3	10 17 39.2
211 Isolda	Dez. 25	10.5	11.5	7.5	1895 Nov. 26.0	1910.0	1 10 15.0	170 41 36.4
212 Medea	Nov. 26	11.5	12.2	8.1	1899 Juli 28.0	1910.0	276 2 57.4	101 16 7.9
213 Lilaea	—	—	11.7	8.3	1898 Febr. 23.0	1910.0	229 20 37.9	158 35 27.9
214 Aschera	Aug. 20	12.3	12.1	9.0	1897 April 9.0	1910.0	72 5 59.3	128 5 43.8
215 Oenone	—	—	12.7	9.3	1891 Nov. 7.0	1910.0	55 43 48.8	314 6 30.5
216 Kleopatra	—	—	10.1	6.6	1886 Juni 26.0	1910.0	277 9 56.8	176 11 54.3
217 Eudora	—	—	13.1	9.5	1900 Dez. 10.0	1910.0	75 4 1.8	150 32 44.9
218 Bianca	Okt. 29	12.0	11.4	8.2	1893 Aug. 28.0	1910.0	96 4 34.6	58 48 58.8
219 Thusnelda	Febr. 22	12.5	11.2	8.8	1889 Jan. 21.0	1910.0	130 33 20.7	140 3 44.8
220 Stephania	—	—	13.6	11.0	1887 Jan. 0.5	1910.0	131 12 41.6	75 7 33.9
221 Eos	Nov. 6	11.1	11.3	7.4	1898 März 15.0	1910.0	201 46 0.0	188 0 19.7
222 Lucia	Juli 11	12.1	12.9	8.8	1898 Jan. 14.0	1910.0	225 34 56.4	175 52 41.3
223 Rosa	Juli 19	13.8	13.3	9.2	1891 Dez. 17.0	1910.0	333 23 9.3	58 28 30.7
224 Oceana	—	—	11.7	8.5	1890 Febr. 5.0	1910.0	225 24 48.8	276 55 27.0
225 Henrietta	—	—	12.7	8.2	1903 Nov. 5.0	1910.0	88 41 26.8	97 37 49.8
226 Weringia	—	—	13.0	9.7	1891 Aug. 19.0	1910.0	30 52 14.2	150 8 45.9
227 Philosophia	Okt. 26	13.8	12.9	8.7	1896 Dez. 10.0	1910.0	283 51 33.6	254 29 42.9
228 Agathe	Mai 5	14.5	14.5	12.4	1892 Nov. 21.5	1910.0	49 45 10.8	16 2 37.2
229 Adelinda	Febr. 28	14.2	13.5	8.9	1901 Aug. 27.0	1910.0	3 50 29.2	303 1 51.4
230 Athamantis	Juli 2	10.3	10.3	7.7	1897 Okt. 26.0	1910.0	11 22 17.7	137 12 47.9
231 Vindobona	Mai 20	11.4	12.4	8.6	1898 Nov. 10.0	1910.0	164 53 38.2	263 38 46.4
232 Russia	—	—	13.4	10.4	1901 Sept. 16.0	1910.0	159 56 8.4	48 35 13.8
233 Asterope	Dez. 31	11.5	11.3	8.1	1897 Aug. 27.0	1910.0	353 18 46.2	122 35 34.5
234 Barbara	Febr. 7	12.9	11.7	9.1	1898 Okt. 21.0	1910.0	33 57 10.0	190 6 58.4
235 Carolina	Juli 7	11.8	12.2	8.5	1897 Sept. 16.0	1910.0	73 32 29.3	207 24 29.7
236 Honoria	Jan. 27	12.0	11.4	7.9	1890 Aug. 20.5	1910.0	341 11 56.1	170 30 20.7
237 Coelestina	April 5	12.8	12.8	9.4	1897 März 20.0	1910.0	258 3 0.9	196 24 38.6
238 Hypatia	Jan. 7	11.6	11.7	8.0	1900 Dez. 10.0	1910.0	54 45 6.4	207 2 40.9
239 Adrastea	—	—	14.0	10.2	1900 Dez. 10.0	1910.0	26 23 21.4	206 1 9.9
240 Vanadis	—	—	12.5	9.3	1901 Juli 18.0	1910.0	262 20 34.3	298 17 15.6

☊			*i*			φ			μ	Log. *a*	Autorität
°	′	″	°	′	″	°	′	″	″		
157	17	30.2	5	43	18.9	10	25	23.2	809.8362	0.4277396	Bauschinger.
137	54	25.3	8	49	26.9	5	51	45.4	659.4551	0.4872142	Berberich.
348	46	39.6	3	12	20.0	3	28	23.6	783.8637	0.4371774	Berberich.
206	2	34.8	8	17	3.5	9	51	34.4	812.2343	0.4268835	Palisa.
212	34	39.7	10	39	53.8	1	54	54.4	765.9190	0.4438825	Küstner.
145	33	33.3	3	45	25.4	2	19	59.5	782.3554	0.437735	Stechert.
29	5	52.3	3	49	3.8	1	39	3.3	1027.9888	0.3586788	Richter.
5	25	26.9	1	47	15.0	0	54	11.9	721.0639	0.4613553	Berberich.
2	8	19.7	7	14	33.2	3	46	48.4	636.9842	0.4972519	Bauschinger.
33	11	5.1	5	18	10.8	7	6	30.8	790.0977	0.4348838	Berberich.
265	28	46.4	3	52	0.2	9	15	38.8	668.6056	0.4832244	Bauschinger.
315	15	56.5	4	16	54.7	6	40	42.2	647.3973	0.4925571	L. Becker.
122	36	4.4	6	46	27.7	8	19	49.1	777.0010	0.4397233	A. Leman.
342	41	30.4	3	27	38.3	1	55	49.3	841.5265	0.416626	Tietjen.
25	28	14.6	1	43	23.1	2	1	15.5	771.4115	0.4418137	Bauschinger.
216	8	54.0	13	2	22.4	14	31	20.7	759.7703	0.4462162	Knopf.
164	9	28.1	10	15	31.0	17	38	25.1	727.0438	0.4589640	Richter.
171	10	12.2	15	12	11.0	6	36	19.6	814.9375	0.4259216	Bauschinger.
201	5	2.9	10	47	16.8	12	54	38.9	982.2924	0.3718439	Darmer.
258	52	26.3	7	34	13.7	14	53	43.7	984.634	0.371154	Bidschof.
142	45	34.4	10	50	59.6	5	34	47.1	677.3539	0.4794607	Bauschinger.
80	28	19.6	2	10	46.9	8	27	39.8	641.7676	0.4950859	Berberich.
48	48	2.4	1	58	46.6	6	57	0.4	652.9855	0.4900687	Bauschinger.
353	39	57.4	5	52	27.9	2	25	51.0	824.6755	0.4224824	S. Oppenheim.
200	52	24.6	20	41	56.1	15	18	16.8	567.5897	0.530647	Cerulli.
135	39	6.7	15	49	30.5	11	43	4.3	793.2109	0.433745	Kreutz.
331	9	43.9	9	15	0.1	12	2	39.9	637.0300	0.4972311	Lange.
313	44	55.4	2	33	21.6	13	55	0.2	1086.2400	0.3427205	Kreutz.
30	51	11.2	2	9	17.4	8	9	53.2	562.4884	0.5332620	Berberich.
239	53	16.0	9	25	11.6	3	32	52.8	964.9093	0.3770134	Richter.
352	24	25.6	5	8	18.5	8	56	36.2	711.1049	0.4653820	Lange.
152	33	31.6	6	4	17.4	9	51	22.1	869.5956	0.4071263	v. d. Groeben.
222	40	10.4	7	39	4.5	5	49	43.8	817.9445	0.4248552	Knopf.
144	25	8.3	15	21	14.2	14	7	1.5	962.6609	0.3776889	Tietjen.
66	42	2.0	9	4	3.2	3	31	18.9	725.2712	0.4596708	Tietjen.
186	49	0.9	7	36	48.4	10	54	45.4	758.1024	0.446853	Bidschof.
84	44	24.1	9	45	48.7	4	1	30.3	771.8775	0.4416388	Schwarz.
184	35	15.0	12	23	12.7	5	10	15.7	715.9041	0.463434	Berberich.
181	39	47.0	6	9	4.0	13	26	21.7	693.1222	0.472798	Berberich.
114	55	52.6	2	5	52.9	11	54	32.0	814.7587	0.4259851	Berberich.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M °	′	″	ω °	′	″
241 Germania . .	Okt. 30	10.8	11.2	7.2	1911 Nov. 3.0	1910.0	41	55	14.2	76	8	22.4
242 Kriemhild . .	Mai 16	12.8	12.6	9.0	1889 Dez. 27.0	1910.0	307	49	54.4	274	28	16.5
243 Ida	April 19	13.5	13.3	9.7	1898 Sept. 11.0	1910.0	276	49	8.8	104	57	1.6
244 Sita	Jan. 5	13.7	13.7	11.7	1900 Okt. 11.0	1910.0	6	50	18.3	164	28	0.7
245 Vera	Dez. 11	11.7	12.5	8.5	1897 März 20.0	1910.0	141	1	15.6	326	20	12.9
246 Asporina . .	Jan. 14	12.2	11.7	8.4	1890 Jan. 16.0	1910.0	316	40	26.7	94	5	7.1
247 Eukrate . . .	—	—	11.0	7.6	1910 Sept. 9.0	1910.0	316	58	24.1	53	38	32.2
248 Lameia . . .	—	—	13.0	10.2	1905 Aug. 6.0	1910.0	71	44	12.3	1	2	34.4
249 Ilse	Nov. 11	12.5	13.6	11.1	1904 Dez. 29.0	1910.0	69	11	14.1	39	42	30.4
250 Bettina . . .	April 30	11.8	11.5	7.3	1897 Nov. 15.0	1910.0	332	3	32.7	66	3	47.2
251 Sophia . . .	Juni 20	14.2	13.6	9.6	1902 Nov. 10.0	1910.0	335	39	10.4	288	20	55.2
252 Clementina .	April 20	13.3	13.0	8.8	1901 Juli 18.0	1910.0	317	26	58.9	148	50	33.1
253 Mathilde . .	Dez. 7	13.3	13.4	10.2	1901 April 9.0	1910.0	256	52	2.1	153	38	18.0
254 Augusta . .	—	—	13.4	11.3	1887 Juli 31.0	1910.0	101	27	54.0	230	49	10.4
255 Oppavia . .	Nov. 20	13.9	13.8	10.4	1890 Jan. 16.0	1910.0	336	40	35.6	149	6	36.3
256 Walpurga . .	Jan. 1	13.5	13.2	9.3	1906 Febr. 2.0	1910.0	254	22	31.1	48	28	9.1
257 Silesia	Dez. 25	12.2	12.8	8.7	1902 April 4.0	1910.0	106	36	49.5	25	30	6.8
258 Tyche	März 30	12.1	11.1	8.0	1904 Okt. 10.0	1900.0	4	23	24.3	152	52	26.8
259 Aletheia . .	Dez. 32	12.6	12.1	8.0	1899 Nov. 25.0	1910.0	162	11	23.4	156	52	33.7
260 Huberta . .	Juli 14	13.3	13.9	9.2	1900 Dez. 10.0	1910.0	92	3	1.9	163	58	5.7
261 Prymno . . .	Nov. 2	12.1	11.5	9.0	1897 Nov. 15.0	1910.0	275	46	24.4	63	7	47.9
262 Valda	—	—	14.1	11.1	1901 Mai 19.0	1910.0	189	4	51.8	22	36	56.6
263 Dresda . . .	Dez. 17	13.1	13.3	9.6	1903 Febr. 18.0	1910.0	133	51	41.8	158	3	22.8
264 Libussa . . .	—	—	12.1	8.6	1895 Aug. 18.0	1910.0	316	59	55.7	336	41	5.1
265 Anna	Okt. 9	15.1	13.8	11.1	1906 März 14.0	1910.0	334	34	37.9	251	23	58.2
266 Aline	Juli 8	11.7	11.7	8.2	1904 Jan. 4.0	1900.0	65	48	59.9	147	50	13.7
267 Tirza	Sept. 27	13.9	14.0	10.5	1901 Juni 28.0	1910.0	4	14	46.5	193	22	52.6
268 Adorea . . .	Nov. 13	13.0	12.5	8.5	1903 Mai 29.0	1910.0	41	9	17.0	58	53	55.4
269 Justitia . . .	Febr. 8	13.4	12.7	9.6	1900 Okt. 31.0	1910.0	91	35	3.3	115	31	13.2
270 Anahita . . .	—	—	11.0	8.9	1910 Nov. 28.0	1910.0	69	42	14.1	78	32	57.1
271 Penthesilea .	April 15	13.3	12.8	8.9	1902 Aug. 22.0	1910.0	303	17	6.1	49	19	54.7
272 Antonia . . .	Jan. 31	13.4	13.6	10.1	1899 Juli 28.0	1910.0	208	59	58.9	65	32	12.4
273 Atropos . . .	Juli 1	10.8	11.6	9.0	1888 März 9.5	1910.0	261	20	1.8	118	28	21.5
274 Philagoria .	Sept. 22	14.1	13.6	9.6	1905 Juli 17.0	1910.0	81	26	30.7	114	39	38.8
275 Sapientia . .	März 27	11.0	12.0	8.5	1902 April 24.0	1910.0	36	26	14.9	31	7	20.2
276 Adelheid . .	Juli 6	12.2	11.8	7.7	1905 Mai 18.0	1910.0	118	0	50.3	272	32	19.8
277 Elvira	—	—	13.1	9.4	1907 März 9.0	1910.0	156	48	17.8	131	37	27.2
278 Paulina . . .	Juni 14	12.3	12.7	9.3	1906 April 23.0	1910.0	4	42	43.8	137	20	17.4
279 Thule	April 10	13.9	13.8	8.1	1907 Dez. 6.5	1910.0	121	15	55.9	234	27	55.0
280 Philia	Mai 2	14.7	14.4	10.6	1900 Febr. 13.0	1910.0	39	45	20.2	80	58	25.3

☊	i	φ	μ	Log. a	Autorität
271° 52′ 4.8″	5° 29′ 55.1″	5° 45′ 31.7″	665.″88527	0.4844048	W. Luther.
208 16 16.8	11 16 52.0	7 5 15.3	732.9031	0.4566401	Herz.
326 14 27.5	1 9 23.6	2 43 0.0	733.1121	0.456558	Berberich.
208 48 21.5	2 49 38.7	7 52 21.3	1106.6025	0.3373433	Berberich.
62 9 21.1	5 11 20.0	11 37 34.2	651.4943	0.4907307	Tietjen.
162 54 3.3	15 37 35.8	6 2 43.0	802.267	0.4304584	Seydler.
0 18 41.2	25 5 2.6	13 59 44.7	782.08161	0.4378363	W. Luther.
246 45 12.4	4 0 52.7	3 40 49.9	913.94026	0.3927259	Berberich.
334 49 30.7	9 40 10.9	12 28 59.5	968.2498	0.3760128	Berberich.
25 44 44.7	12 56 32.7	7 1 38.3	633.85003	0.498680	P. V. Neugebauer.
156 56 53.5	10 29 21.1	5 38 31.8	650.38006	0.4912263	Knopf.
203 12 39.2	9 59 40.2	4 15 39.6	632.1027	0.4994793	Charlois.
180 9 24.1	6 38 16.5	15 28 16.9	824.9747	0.4223773	Knopf.
28 28 40.6	4 32 3.2	6 58 7.6	1091.0836	0.3414323	Schwarz.
14 21 30.2	9 30 41.9	4 40 24.1	780.0705	0.4385818	Laves.
183 38 34.4	13 17 58.1	3 43 37.0	683.2594	0.4769473	Berberich.
35 32 38.3	3 40 9.7	7 18 8.3	646.6326	0.4928994	Berberich.
207 43 26.2	14 15 2.4	11 52 56.0	838.8243	0.4175571	Stechert.
88 37 4.1	10 42 43.7	6 20 43.1	635.21397	0.4980577	Ernst.
168 3 52.2	6 17 53.3	7 7 16.5	554.7196	0.5372887	v. d. Groeben.
96 28 8.3	3 38 28.6	5 9 55.5	996.7823	0.3676042	Riem.
38 44 43.0	7 44 4.6	12 14 5.8	869.5200	0.4071513	Berberich.
217 47 31.0	1 16 53.0	4 21 32.2	722.5549	0.4607572	v. d. Groeben.
50 12 15.6	10 26 47.1	7 44 47.5	757.7014	0.4470056	Cerulli.
335 26 56.8	25 40 50.5	15 20 26.1	941.9275	0.3839928	Berberich.
236 19 21.7	13 21 1.2	9 1 20.5	755.6505	0.4477904	Berberich.
74 11 19.8	6 1 26.2	5 46 49.5	767.3626	0.4433373	v. d. Groeben.
121 47 54.0	2 25 39.9	7 45 32.6	652.37206	0.4903408	Berberich.
157 37 9.8	5 25 49.2	12 18 39.7	838.9442	0.4175157	Berberich.
254 27 59.2	2 21 38.4	8 38 46.0	1088.54983	0.3421055	Berberich.
337 6 44.8	3 34 52.4	5 47 42.9	679.1966	0.4786741	Knopf.
37 51 15.8	4 28 30.9	1 46 56.3	767.2554	0.4433777	Charlois.
159 7 3.3	20 24 0.8	9 19 0.4	955.4037	0.379880	Lange.
93 45 36.1	3 40 53.3	7 7 6.3	669.09610	0.4830121	Berberich.
134 55 18.6	4 44 44.3	9 18 0.2	769.93398	0.4423688	Lange.
211 36 29.4	21 35 30.5	4 7 12.9	645.07018	0.4935998	Hackenberg.
233 17 5.0	1 8 0.1	5 18 42.5	724.6235	0.4599295	Berberich.
62 20 28.0	7 49 44.6	7 47 48.7	776.6491	0.4398545	Berberich.
75 36 14.8	2 22 29.8	4 37 35.7	404.29239	0.6288740	Wedemeyer.
11 25 17.4	7 27 30.5	6 19 13.9	703.8816	0.4683380	Berberich.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
281 Lucretia . .	—	—	13.1	11.0	1888 Nov. 2.5	1910.0	353 32 12.5	14 35 2.4
282 Clorinde . .	April 27	13.6	13.3	10.8	1905 Aug. 26.0	1910.0	277 9 37.1	294 43 20.3
283 Emma	März 27	12.5	11.8	7.8	1901 Mai 19.0	1910.0	249 24 18.8	49 52 23.4
284 Amalia . . .	Juli 10	11.3	12.9	10.4	1905 Dez. 24.0	1910.0	168 23 3.0	55 42 58.7
285 Regina . . .	—	—	14.9	10.9	1889 Aug. 19.5	1910.0	357 36 27.2	12 28 58.7
286 Iclea	Juni 16	13.3	13.2	9.0	1905 Juni 7.0	1910.0	211 56 51.1	243 11 59.6
287 Nephthys . .	Okt. 16	10.8	10.7	8.2	1899 April 19.0	1910.0	311 52 37.9	117 32 38.4
288 Glauke . . .	Nov. 22	13.3	12.5	9.1	1911 Nov. 23.0	1910.0	234 7 54.3	80 3 46.3
289 Nenetta . . .	Mai 25	12.9	12.5	8.8	1907 Aug. 16.0	1910.0	337 3 13.4	185 22 3.2
290 Bruna	—	—	13.9	11.5	1890 Mai 7.5	1910.0	56 49 22.1	103 32 41.3
291 Alice	Sept. 29	13.8	13.6	11.4	1905 Dez. 24.0	1910.0	337 18 6.1	329 28 13.1
292 Ludovica . .	Aug. 25	12.3	12.5	9.5	1903 Sept. 6.5	1910.0	3 3 9.9	287 29 17.0
293 Brasilia . . .	Okt. 7	13.3	12.9	9.2	1890 Juni 17.5	1910.0	92 28 41.4	82 22 24.6
294 Felicia . . .	April 1	14.9	14.3	10.2	1901 Aug. 7.0	1910.0	353 2 17.9	179 28 13.6
295 Theresia . .	Febr. 23	13.4	13.5	10.0	1900 Dez. 10.0	1910.0	8 35 38.2	143 48 50.9
296 Phaëtusa . .	—	—	13.3	11.1	1890 Aug. 22.0	1910.0	330 33 11.7	250 4 4.6
297 Caecilia . . .	April 3	13.6	13.3	9.1	1906 Juni 2.0	1910.0	300 21 16.8	346 24 30.3
298 Baptistina .	Dez. 20	13.2	13.5	11.3	1906 Mai 13.0	1910.0	83 33 27.7	132 43 13.3
299 Thora	März 10	14.7	14.5	11.7	1903 Jan. 19.5	1910.0	83 26 9.5	147 35 9.9
300 Geraldina . .	April 16	12.6	12.5	8.2	1895 Juli 10.0	1910.0	336 44 54.3	283 3 2.7
301 Bavaria . . .	Mai 28	12.3	12.7	9.3	1903 Okt. 16.0	1910.0	95 17 5.1	121 19 7.3
302 Clarissa . . .	April 13	14.3	13.9	11.2	1901 Sept. 16.0	1910.0	290 56 54.8	53 3 25.3
303 Josephina . .	Nov. 11	11.6	12.0	7.9	1908 März 23.5	1910.0	118 30 44.3	70 2 57.9
304 Olga	Sept. 23	10.9	12.4	9.7	1906 Febr. 2.0	1910.0	193 33 14.2	169 45 47.0
305 Gordonia . .	Nov. 18	11.5	12.5	8.4	1905 Okt. 5.0	1910.0	281 49 57.0	250 36 56.1
306 Unitas . . .	Dez. 23	11.4	10.7	8.2	1902 März 15.5	1910.0	240 21 9.1	165 31 57.6
307 Nike	März 9	13.2	13.1	9.4	1891 März 8.5	1910.0	74 37 11.8	320 29 5.7
308 Polyxo . . .	Okt. 12	11.0	11.0	7.6	1902 Nov. 10.0	1910.0	97 52 8.3	108 53 30.4
309 Fraternitas .	—	—	12.7	9.5	1891 Mai 11.5	1910.0	239 5 58.0	332 8 15.9
310 Margarita . .	Okt. 30	13.5	13.5	10.1	1891 Juni 17.5	1910.0	48 49 25.4	320 41 8.3
311 Claudia . . .	Juli 13	13.0	13.0	9.3	1903 Dez. 15.0	1910.0	301 3 0.2	71 48 18.9
312 Pierretta . .	—	—	12.5	9.0	1901 Nov. 15.0	1910.0	149 15 57.6	256 32 46.2
313 Chaldaea . .	—	—	10.3	7.7	1906 Okt. 20.0	1910.0	272 0 32.8	313 53 31.3
314 Rosalia . . .	März 5	14.9	14.0	9.9	1907 Juli 7.0	1910.0	304 32 21.0	185 10 13.6
315 Constantia .	Aug. 5	12.9	14.0	11.8	1891 Sept. 4.5	1910.0	9 27 44.6	171 22 42.4
316 Goberta . . .	März 21	13.4	13.3	9.1	1893 Jan. 0.0	1910.0	11 29 4.9	307 29 39.4
317 Roxane . . .	April 19	12.4	12.2	9.8	1904 März 24.0	1910.0	223 53 21.1	185 10 51.7
318 Magdalena .	Jan. 11	13.0	13.2	9.0	1903 Sept. 26.0	1910.0	294 58 3.9	273 31 23.8
319 Leona	—	—	14.2	9.7	1906 Febr. 22.0	1910.0	83 18 24.7	216 19 52.6
320 Katharina . .	Juli 5	14.0	13.7	9.8	1891 Dez. 2.5	1910.0	23 36 28.6	142 54 14.8

Ω	i	φ	μ	Log. a	Autorität
31° 18' 2.7"	5° 19' 37.6"	7° 35' 40.8"	1097.869"	0.339637	Seydler.
144 47 14.0	9 1 23.8	4 40 42.6	992.0943	0.3689684	Berberich.
305 51 15.2	8 2 29.8	8 46 12.1	668.5906	0.483231	Berberich.
234 2 0.7	8 4 14.3	12 51 34.8	979.7243	0.3726018	Berberich.
312 19 2.3	17 16 57.9	11 55 35.4	661.4827	0.4863254	Charlois.
149 38 59.4	17 53 34.1	0 45 31.4	620.6276	0.5047837	Berberich.
142 13 54.2	10 1 20.1	1 19 35.4	982.6631	0.371735	Cerulli.
121 3 24.7	4 19 54.6	11 48 58.1	773.30145	0.4411052	R. Luther.
182 36 31.3	6 39 22.0	11 44 54.4	728.0006	0.4585832	Berberich.
10 35 19.4	22 13 28.1	15 4 22.7	995.1925	0.368066	S. Oppenheim.
161 7 22.5	1 50 32.2	5 19 14.8	1071.1737	0.3467645	Berberich.
43 11 16.0	14 52 8.2	1 41 17.2	880.6967	0.4034534	Berberich.
62 20 54.1	15 45 20.9	6 48 2.9	730.8370	0.4574574	Charlois.
137 3 38.4	6 14 57.7	14 21 59.6	638.4006	0.4966088	P. V. Neugebauer.
277 34 14.1	2 40 23.3	9 49 31.5	758.6107	0.4466584	Berberich.
121 1 53.2	1 44 47.3	9 6 25.9	1068.122	0.3475906	Coniel.
333 34 56.7	7 34 41.9	7 57 28.4	629.2581	0.5007852	Berberich.
8 7 5.8	6 17 37.4	5 28 22.7	1041.4193	0.3549207	Berberich.
242 2 9.3	1 35 16.8	3 29 25.0	935.125	0.386091	Berberich.
42 21 30.3	0 47 5.4	2 26 41.4	617.2655	0.5063564	Rodin.
142 45 15.3	4 52 38.1	3 42 13.9	787.7302	0.4357527	Berberich.
7 53 21.9	3 26 4.1	6 22 53.8	950.1028	0.3814907	Berberich.
345 6 47.2	6 55 28.9	4 6 42.7	644.21972	0.4939818	Millosevich.
158 53 56.4	15 47 16.1	12 49 46.2	952.9185	0.3806339	Berberich.
211 11 17.9	4 25 2.2	11 33 54.0	654.8993	0.4892213	Berberich.
141 43 35.3	7 15 13.9	8 40 35.6	980.0925	0.372493	Millosevich.
101 43 34.0	6 6 42.4	8 16 29.7	715.9363	0.4634215	Knopf.
182 8 53.0	4 19 54.1	2 13 1.3	778.7887	0.4390579	Berberich.
358 7 59.8	3 56 18.3	5 1 56.0	831.679	0.420034	Berberich.
230 43 26.5	3 5 55.3	6 31 55.2	775.6563	0.440225	Berberich.
81 17 5.0	3 15 38.0	0 58 32.8	721.5158	0.4611738	Berberich.
7 40 39.7	9 5 3.2	9 13 39.5	765.2695	0.4441281	P. V. Neugebauer.
170 40 23.5	11 36 14.2	10 27 16.0	969.4022	0.3756684	Berberich.
171 17 15.6	12 32 21.5	10 26 41.1	634.7188	0.4982835	Berberich.
161 22 12.5	2 24 30.8	9 40 17.9	1057.2646	0.3505486	Bohlin.
124 39 7.9	2 18 33.4	7 57 58.6	627.7382	0.501485	Berberich.
150 50 32.5	1 45 18.0	4 50 38.8	1025.9378	0.3592571	Berberich.
162 49 53.4	10 33 32.6	3 35 37.4	616.07949	0.506913	Mader.
189 5 22.4	10 44 15.4	12 15 56.9	563.9420	0.5325148	Berberich.
221 12 36.2	9 19 16.0	6 41 30.5	678.726	0.478875	Berberich.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ' "	° ' "
321 Florentina . .	Dez. 6	12.9	13.2	9.5	1903 Febr. 18.0	1910.0	72 54 39.7	34 0 40.1
322 Phaeo	Jan. 12	12.4	12.3	8.8	1905 Nov. 14.0	1910.0	38 46 38.3	111 32 54.5
323 Brucia	—	—	13.0	11.0	1892 Jan. 1.5	1891.0	43 0 42	292 17 48
324 Bamberga . .	Mai 8	10.8	9.9	6.6	1906 April 3.0	1910.0	195 13 6.8	40 19 30.5
325 Heidelberga .	Juli 6	12.9	12.4	8.1	1906 Aug. 1.0	1910.0	270 22 12.3	74 39 7.7
326 Tamara	Nov. 23	12.1	11.1	8.7	1892 März 20.0	1910.0	298 49 14.0	236 57 34.2
327 Columbia . . .	Mai 20	12.7	13.0	9.5	1905 Febr. 7.0	1910.0	181 23 55.4	300 41 58.1
328 Gudrun	Sept. 18	12.3	12.3	8.2	1906 Okt. 20.0	1910.0	309 12 45.4	102 25 47.4
329 Svea	Jan. 23	12.2	12.1	9.3	1901 Aug. 27.0	1910.0	120 9 24.9	38 30 56.3
330 Adalberta . .	—	—	13.5	11.7	1892 März 20.5	1892.0	181 3 42	— — —
331 Etheridgea . .	—	—	12.5	8.5	1907 Febr. 17.0	1910.0	158 33 59.1	333 35 38.5
332 Siri	April 30	12.6	12.6	9.1	1906 März 14.0	1910.0	223 56 59.9	293 37 55.7
333 Badenia . . .	Febr. 1	13.1	12.7	8.6	1907 April 18.0	1910.0	215 17 59.6	14 14 18.9
334 Chicago	Jan. 22	12.1	12.0	6.8	1908 Sept. 19.0	1910.0	356 5 54.5	240 27 12.1
335 Roberta	Juni 14	10.5	11.6	8.8	1906 Febr. 2.0	1910.0	205 28 47.7	140 50 43.9
336 Lacadiera . . .	März 23	11.7	11.8	9.6	1902 Juni 23.0	1910.0	49 57 10.9	28 49 41.1
337 Devosa	—	—	11.4	8.8	1901 Jan. 19.0	1910.0	27 7 6.0	95 40 16.9
338 Budrosa . . .	Juli 13	12.1	12.1	8.4	1899 Jan. 9.0	1910.0	72 15 37.1	106 31 3.0
339 Dorothea . . .	März 31	13.1	12.8	8.8	1906 April 23.0	1910.0	246 3 47.7	155 59 18.6
340 Eduarda . . .	—	—	12.9	9.5	1906 Nov. 9.0	1910.0	346 36 56.4	39 58 16.1
341 California . . .	April 30	13.1	13.1	11.0	1907 Jan. 28.0	1910.0	172 9 40.7	291 20 59.2
342 Endymion . .	Mai 22	13.3	12.8	9.8	1906 Febr. 2.0	1910.0	33 2 34.6	221 45 48.4
343 Ostara	—	—	13.5	10.9	1906 Juni 2.0	1910.0	230 17 35.4	7 5 53.9
344 Desiderata . .	Jan. 24	13.0	11.7	8.5	1907 März 9.0	1910.0	236 59 21.3	233 57 8.8
345 Tercidina . . .	—	—	11.2	8.8	1906 Okt. 20.0	1910.0	304 42 30.8	229 3 10.0
346 Hermentaria .	Dez. 22	11.3	11.5	8.0	1899 März 10.0	1910.0	156 0 38.3	287 6 50.9
347 Pariana	Mai 9	11.3	12.0	8.8	1906 Jan. 13.5	1910.0	309 39 11.0	83 32 9.5
348 May	Juli 19	13.3	12.9	9.1	1895 Mai 10.0	1910.0	143 12 22.8	4 58 1.5
349 Dembowska .	Aug. 24	9.9	9.8	6.0	1896 Aug. 12.0	1910.0	319 16 56.2	340 30 13.5
350 Ornamenta . .	April 24	13.3	12.7	8.6	1907 Juli 7.0	1910.0	240 6 7.0	331 59 51.1
351 Yrsa	—	—	12.2	8.8	1907 Jan. 28.0	1910.0	354 50 4.6	27 13 3.4
352 Gisela	Okt. 1	11.1	12.1	10.0	1904 Juni 12.0	1910.0	255 25 57.5	142 27 24.3
353 Ruperto-Carola	—	—	14.2	10.9	1893 Febr. 22.5	1910.0	44 0 13.0	317 41 4.5
354 Eleonora . . .	—	—	10.0	6.5	1901 Dez. 5.0	1910.0	303 30 35.7	3 34 23.7
355 Gabriella . . .	Aug. 11	13.4	13.1	10.1	1905 Jan. 2.5	1910.0	12 25 36.0	94 32 55.4
356 Liguria	—	—	11.0	7.6	1907 Febr. 17.0	1910.0	64 49 7.3	74 23 55.2
357 Ninina	Juni 6	12.4	12.2	8.0	1907 Sept. 18.5	1910.0	340 46 14.9	242 29 42.0
358 Apollonia . . .	—	—	12.5	8.8	1893 März 10.5	1910.0	86 52 43.5	248 18 56.9
359 Georgia	März 13	13.1	12.3	8.9	1902 Mai 2.5	1910.0	203 0 32.1	336 37 38.1
360 Carlova	Aug. 17	11.8	11.9	8.0	1908 Jan. 3.0	1910.0	33 4 5.4	286 54 56.0

☊	i	φ	μ	Log. a	Autorität
40° 47′ 5.0″	2° 36′ 56.6″	2° 39′ 3.1″	723.″6554	0.4603165	Berberich.
253 56 18.3	7 59 8.1	14 15 14.3	763.9060	0.4446445	Berberich.
97 2 30	19 20 54	15 57 36	1119.60	0.333960	Berberich.
329 8 36.3	11 18 40.9	19 47 42.6	807.8079	0.4284657	Berberich.
345 21 18.6	8 33 40.7	9 8 49.5	616.9272	0.5065151	Berberich.
32 9 9.7	23 47 22.4	10 48 17.5	1005.7638	0.365007	Bidschof.
355 39 44.3	7 9 11.2	3 41 18.3	766.8777	0.4435203	Berberich.
353 15 29.5	16 7 1.7	7 2 42.8	649.8767	0.4914504	Berberich.
178 28 13.5	16 0 36.7	1 35 42.6	912.1349	0.3932983	Pannekoek.
358 46 36	19 58 36	— — —	1174.9	0.32000	Berberich.
22 52 28.7	6 4 30.0	5 58 43.0	675.6718	0.4801805	Berberich.
32 3 7.2	2 52 35.7	5 10 38.7	768.7492	0.4428147	Berberich.
355 22 47.1	3 50 23.7	10 5 3.7	644.6123	0.4938053	Berberich.
134 20 51.2	4 37 53.7	0 54 49.6	458.6230	0.5923672	Berberich.
147 55 31.6	5 5 49.9	10 22 10.8	912.6621	0.3931311	Berberich.
235 1 13.3	5 38 30.7	5 28 48.1	1049.8478	0.3525869	Berberich.
355 41 19.0	7 51 56.4	7 57 52.0	964.4421	0.3771536	Coniel.
288 39 56.0	6 2 41.2	1 12 38.1	713.531	0.464396	Coniel.
174 26 7.4	9 53 59.7	5 49 6.3	679.2158	0.4786658	Berberich.
27 35 29.8	4 42 11.5	6 46 57.8	779.9016	0.4386445	Berberich.
29 3 57.0	5 40 1.7	11 8 39.8	1087.7152	0.3423276	Berberich.
233 0 11.1	7 20 46.9	7 22 8.5	862.0140	0.4096615	Berberich.
38 42 17.6	3 18 13.3	13 23 25.7	947.4192	0.3823097	Berberich.
49 0 25.8	18 36 32.9	18 20 50.5	850.5213	0.4135476	Berberich.
212 31 31.0	9 44 20.7	3 30 29.0	1000.9051	0.3664092	Viaro.
92 32 7.0	8 45 21.1	5 47 46.6	758.53251	0.446688	Ehrenfeucht.
85 52 47.9	11 42 41.9	9 21 56.3	838.0358	0.4178294	Boccardi.
90 45 49.6	9 45 30.5	3 49 50.1	693.6375	0.472584	P. V. Neugebauer.
33 13 11.3	8 17 24.6	5 8 39.7	709.2917	0.466122	P. V. Neugebauer.
90 39 23.5	24 44 31.8	8 44 29.1	643.0948	0.4944877	Berberich.
99 40 26.2	9 13 56.4	8 52 21.2	770.7562	0.4420597	Berberich.
247 18 51.6	3 22 0.5	8 36 26.8	1091.9690	0.3411975	Berberich.
103 23 14.9	5 34 36.4	19 15 26.7	787.080	0.435992	Berberich.
140 49 23.3	18 22 24.1	6 35 44.4	754.8010	0.4481160	Ciscato.
352 19 52.4	4 21 6.4	6 12 55.9	877.280	0.404580	Berberich.
356 14 1.3	8 16 5.4	14 2 9.4	776.2821	0.4399913	Berberich.
138 47 50.5	15 6 50.1	4 5 44.9	634.456	0.498404	P. V. Neugebauer.
173 8 14.8	3 31 44.7	8 26 24.1	725.563	0.459554	Coniel.
6 41 13.1	6 48 31.7	8 58 30.9	787.647	0.435783	Berberich.
133 23 12.5	11 39 55.5	10 20 45.1	682.0180	0.4774739	Berberich.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
361 Bononia . .	Juni 18	14.2	13.3	8.0	1906 Okt. 20.0	1910.0	315 0 55.4	75 44 20.7
362 Havnia . . .	Sept. 1	11.0	11.1	8.0	1905 Febr. 7.0	1910.0	72 40 34.9	29 11 6.7
363 Padua . . .	Febr. 15	11.9	11.6	8.2	1902 Febr. 23.0	1910.0	150 10 39.9	293 18 1.4
364 Isara	Sept. 30	11.0	11.7	9.5	1906 Febr. 2.0	1910.0	64 52 29.0	311 1 48.7
365 Corduba . .	Jan. 14	12.0	12.2	8.7	1904 Juli 22.0	1910.0	285 5 51.5	209 40 43.5
366 Vincentina .	Juli 22	12.0	12.3	8.2	1904 März 24.0	1910.0	241 10 18.0	314 58 42.8
367 Amicitia . .	Dez. 16	12.1	12.5	10.3	1906 März 28.5	1910.0	52 40 0.0	53 16 37.5
368 Haidea . . .	Dez. 23	14.1	13.5	9.5	1893 Juli 17.5	1910.0	317 18 49.4	85 6 56.3
369 Aëria	Okt. 4	12.2	12.7	9.5	1906 Juli 12.0	1910.0	287 6 32.8	266 17 7.5
370 Modestia . .	Sept. 16	12.3	12.8	10.4	1907 Juli 7.0	1910.0	294 33 33.7	66 1 12.1
371 Bohemia . .	Juli 21	11.4	11.8	8.4	1903 Nov. 5.0	1910.0	134 40 33.2	338 44 39.2
372 Palma . . .	—	—	10.5	6.4	1905 Dez. 4.0	1910.0	2 21 33.6	113 11 50.6
373 Melusina . .	—	—	12.8	8.7	1907 März 9.0	1910.0	165 50 25.5	347 42 45.3
374 Burgundia .	Aug. 3	11.5	11.7	8.2	1906 Juni 2.0	1910.0	20 43 28.8	22 6 54.0
375 Ursula . . .	—	—	11.0	6.9	1901 Jan. 19.0	1910.0	155 15 7.8	344 31 25.5
376 Geometria .	Dez. 13	12.7	11.8	9.4	1904 Nov. 19.0	1910.0	171 38 36.4	314 16 28.2
377 Campania .	Nov. 29	11.1	11.5	8.2	1893 Okt. 7.5	1910.0	338 6 43.1	192 39 34.1
378 Holmia . . .	Sept. 18	11.9	12.6	9.1	1906 Aug. 21.0	1910.0	301 48 59.4	153 47 51.8
379 Huenna . . .	Mai 21	12.8	12.6	8.5	1901 April 9.0	1910.0	210 5 22.9	177 18 16.1
380 Fiducia . . .	—	—	12.6	9.3	1894 Jan. 11.0	1910.0	129 58 51.0	237 3 32.6
381 Myrrha . . .	Jan. 13	12.9	12.4	8.1	1906 März 14.0	1910.0	266 28 42.8	142 59 18.2
382 Dodona . . .	März 13	11.4	12.1	8.1	1906 Mai 13.0	1910.0	9 20 17.0	267 5 53.6
383 Janina . . .	März 1	13.5	13.3	9.2	1908 Aug. 30.0	1910.0	290 32 49.4	313 43 28.9
384 Burdigala . .	Jan. 2	10.9	11.7	8.5	1899 April 9.5	1910.0	119 46 59.6	30 33 43.4
385 Ilmatar . . .	Okt. 27	10.7	10.3	6.7	1904 Mai 3.0	1910.0	38 31 8.7	184 18 24.2
386 Siegena . . .	Aug. 29	9.7	10.5	6.8	1906 Aug. 21.0	1910.0	317 54 55.1	217 39 48.2
387 Aquitania .	—	—	9.8	6.4	1895 Juli 3.5	1910.0	353 6 10.2	153 33 34.9
388 Charybdis .	Juni 26	11.4	11.7	7.8	1906 Juli 12.0	1910.0	338 15 19.8	322 41 28.4
389 Industria . .	März 5	10.8	11.1	8.0	1899 Juni 18.0	1910.0	63 27 27.4	262 50 16.2
390 Alma	Jan. 7	12.5	13.2	10.0	1899 Mai 17.0	1910.0	88 15 19.6	188 31 9.3
391 Ingeborg . .	Mai 13	13.8	13.2	10.8	1906 Jan. 13.0	1910.0	82 56 37.0	145 9 23.8
392 Wilhelmina .	—	—	12.2	8.3	1894 Nov. 4.5	1910.0	38 39 10.1	141 27 52.4
393 Lampetia . .	März 2	12.0	11.0	7.6	1904 Dez. 9.0	1910.0	130 40 16.4	86 49 15.1
394 Arduina . .	April 21	13.5	13.0	9.6	1894 Nov. 23.5	1910.0	55 25 12.3	265 38 37.7
395 Delia	Mai 30	12.3	13.0	9.5	1894 Dez. 3.5	1910.0	136 43 41.3	20 38 45.7
396 Aeolia . . .	—	—	13.2	9.7	1894 Dez. 2.5	1910.0	156 42 32.8	18 37 12.4
397 Vienna . . .	Dez. 1	11.6	12.6	9.4	1902 Aug. 2.0	1910.0	334 42 30.6	136 13 17.5
398 Admete . . .	Juli 31	14.3	13.7	10.4	1907 Nov. 4.5	1910.0	317 29 32.7	156 33 37.6
399 Persephone .	Febr. 28	12.6	13.0	9.0	1907 Juli 7.0	1910.0	99 59 2.0	187 2 29.5
400 Ducrosa . .	—	—	14.5	10.4	1895 März 18.5	1910.0	337 44 19.1	229 27 12.8

Ω	i	φ	μ	Log. a	Autorität
19° 36′ 14.1″	12° 36′ 57.4″	11° 31′ 54.9″	451″.1434	0.5971280	Berberich.
27 23 27.4	8 4 45.0	2 31 4.1	857.1587	0.4112969	Berberich.
65 8 10.2	5 58 1.3	4 3 32.9	778.9495	0.438998	Antoniazzi.
105 12 52.6	6 0 3.6	8 36 53.9	1072.5804	0.3463845	Berberich.
185 54 15.1	12 43 37.8	8 24 38.7	754.5331	0.448218	Berberich.
347 59 13.4	10 35 26.9	3 27 2.7	636.2125	0.4976029	Berberich.
83 7 23.4	2 57 0.7	5 28 31.2	1072.8626	0.3463083	Berberich.
230 7 47.4	7 48 12.9	11 8 13.1	663.984	0.485231	Berberich.
94 30 31.4	12 43 17.6	5 33 23.3	822.7067	0.4231744	Berberich.
290 58 8.9	7 52 10.3	5 13 41.6	1001.1919	0.3663261	Berberich.
284 12 33.9	7 22 40.8	3 35 43.7	788.36429	0.435520	Mader.
328 25 22.6	23 39 56.7	15 37 36.8	635.9909	0.4977038	Berberich.
4 26 22.4	15 27 4.2	8 34 43.1	646.5817	0.4929222	Berberich.
219 35 36.2	8 57 56.2	4 37 44.9	765.5599	0.4440183	Berberich.
337 27 33.3	15 57 18.0	5 41 17.0	640.8169	0.4955151	Heuer.
302 13 7.9	5 25 21.7	9 54 46.1	1025.0162	0.3595172	Berberich.
210 44 55.0	6 39 37.8	4 26 14.5	804.920	0.429503	Coniel.
233 14 43.6	6 57 56.3	7 20 19.7	766.5723	0.4436357	Berberich.
172 51 58.2	1 36 30.6	11 5 26.6	641.8494	0.4950490	Coniel.
95 22 51.6	6 10 16.7	6 33 30.2	809.782	0.427760	P. V. Neugebauer.
125 23 34.0	12 34 45.8	7 15 16.3	620.6242	0.5047852	Berberich.
315 49 0.2	7 26 3.1	10 9 28.8	645.0171	0.4936236	Berberich.
93 25 27.3	2 39 13.5	9 59 26.2	638.8727	0.4963949	Berberich.
48 21 10.9	5 38 57.3	8 22 34.3	820.6462	0.423900	Kromm.
345 47 13.2	13 41 2.2	7 30 49.9	739.9493	0.4538697	Witt.
167 7 26.1	20 15 35.6	9 34 42.5	719.3456	0.4620460	Berberich.
128 46 8.2	17 57 51.9	13 47 16.3	782.6076	0.4376414	Ogburn.
355 28 53.3	6 28 59.6	3 28 2.8	680.7507	0.4780123	Berberich.
282 46 45.1	8 7 8.8	3 53 14.7	842.4772	0.416299	Peyra.
305 34 11.1	12 8 55.9	7 28 40.3	821.022	0.423768	Coniel.
212 42 11.7	23 2 49.0	18 0 7.6	1004.2640	0.3654391	Berberich.
211 52 31.8	15 42 21.3	10 13 36.9	694.356	0.472283	Berberich.
214 28 57.3	14 54 43.5	19 14 19.0	766.9701	0.4434854	Berberich.
68 21 10.6	6 15 39.4	13 11 32.3	771.095	0.441933	Coniel.
260 2 6.3	3 31 42.0	7 16 9.6	764.391	0.444461	Capon.
251 27 25.2	2 37 50.3	10 18 30.4	782.986	0.437501	Coniel.
228 32 12.0	12 43 25.8	14 22 11.1	829.3549	0.420844	Mader.
280 38 14.2	9 29 36.6	12 49 55.4	782.8137	0.4375654	Franz.
347 18 20.6	13 10 0.0	4 6 33.0	665.0959	0.4847482	Berberich.
328 49 40.9	10 36 55.7	5 15 50.9	641.871	0.495039	Berberich.

Nr. und Name	Opposition 1911	Gr.	$m_\circ$	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
401 Ottilia	Dez. 19	12.9	12.6	8.2	1905 Dez. 24.0	1910.0	220 5 45.6	197 2 51.2
402 Chloë	Jan. 21	10.1	10.7	7.7	1895 März 27.5	1910.0	28 44 8.7	12 26 25.6
403 Cyane . . .	Okt. 28	12.1	12.0	8.5	1905 Juli 17.0	1910.0	153 9 6.5	247 54 30.1
404 Arsinoë . . .	Febr. 6	12.6	13.0	10.0	1905 Nov. 14.0	1910.0	214 53 8.0	118 51 5.8
405 Thia	April 2	9.4	11.0	8.0	1895 Juli 27.0	1910.0	73 36 35.0	305 12 7.9
406 Erna	Dez. 33	13.7	13.5	9.8	1905 Aug. 31.5	1910.0	352 15 46.2	34 30 49.2
407 Arachne . .	Juni 16	11.9	11.9	8.7	1907 Juli 27.0	1910.0	290 1 11.0	78 11 36.7
408 Fama	Juli 26	13.4	13.4	9.2	1895 Okt. 15.5	1910.0	354 28 32.9	100 36 33.0
409 Aspasia . . .	Okt. 7	11.0	10.7	7.6	1903 Okt. 19.5	1910.0	163 47 0.0	351 8 7.6
410 Chloris . . .	Juli 2	10.2	11.9	8.5	1906 April 17.5	1910.0	311 22 7.1	168 47 7.0
411 Xanthe . . .	Jan. 3	13.1	12.5	8.7	1906 Jan. 24.5	1910.0	185 43 46.2	174 42 24.4
412 Elisabetha .	Mai 21	11.7	11.9	8.5	1904 Dez. 29.0	1910.0	252 59 27.0	92 48 23.5
413 Edburga . .	Sept. 6	9.9	12.2	9.2	1896 Jan. 10.5	1910.0	72 21 21.0	248 52 42.0
414 Liriope . . .	Mai 22	13.8	13.4	8.6	1898 April 24.0	1910.0	184 57 33.5	299 54 3.1
415 Palatia . . .	Mai 7	12.9	11.6	8.1	1900 Jan. 0.0	1910.0	351 8 15.5	293 39 15.0
416 Vaticana . .	Okt. 4	11.7	11.5	8.0	1902 Okt. 21.5	1910.0	114 14 16.4	195 25 17.1
417 Suevia . . .	Aug. 11	13.2	12.7	9.2	1907 Sept. 25.0	1910.0	186 5 50.0	343 18 38.4
418 Alemannia .	März 5	13.1	12.6	9.5	1905 Dez. 24.0	1910.0	60 41 21.9	123 1 58.9
419 Aurelia . . .	Jan. 6	12.3	11.1	8.0	1907 Jan. 28.0	1910.0	225 26 32.6	40 16 21.9
420 Bertholda . .	—	—	12.3	7.7	1904 Dez. 29.0	1910.0	359 57 43.4	216 25 36.5
421 Zähringia . .	Mai 7	15.5	14.2	11.2	1904 Mai 23.0	1910.0	299 14 47.2	205 57 54.3
422 Berolina . .	Febr. 2	14.3	13.4	11.2	1896 Dez. 4.5	1910.0	43 3 30.9	333 4 23.2
423 Diotima . . .	Aug. 19	11.1	11.2	7.2	1906 Sept. 30.0	1910.0	87 12 6.0	193 49 7.3
424 Gratia . . .	Febr. 4	12.5	12.8	9.3	1903 Mai 29.0	1910.0	174 2 31.1	329 36 33.8
425 Cornelia . .	—	—	13.1	9.4	1897 Jan. 20.5	1910.0	295 5 56.3	118 48 56.6
426 Hippo	Juli 12	11.6	11.5	7.8	1897 Sept. 30.0	1910.0	172 10 55.2	221 45 45.3
427 Galene . . .	März 31	13.0	12.8	9.0	1905 Jan. 14.5	1910.0	184 20 0.0	5 55 16.4
428 Monachia . .	Nov. 12	11.7	13.5	11.1	1900 Aug. 7.5	1910.0	300 39 10.6	13 51 45.2
429 Lotis	Jan. 3	12.3	12.6	9.4	1905 Sept. 22.5	1910.0	331 42 21.7	166 36 34.0
430 Hybris . .	Sept. 30	12.0	13.2	9.6	1898 Jan. 21.5	1910.0	15 12 12.0	174 56 25.2
431 Nephele . . .	März 28	13.2	12.6	8.5	1906 Mai 29.5	1910.0	279 57 55.7	209 48 3.8
432 Pythia . . .	Okt. 18	11.6	11.3	8.7	1906 Febr. 2.0	1910.0	258 54 29.7	172 15 56.3
433 Eros	—	—	9.7	10.6	1907 Okt. 15.0	1910.0	285 40 28.0	177 46 3.8
434 Hungaria . .	April 27	10.9	11.8	10.4	1908 März 3.0	1910.0	226 7 44.9	123 1 51.3
435 Ella	—	—	12.1	9.3	1906 Nov. 9.0	1910.0	44 18 22.6	331 7 16.6
436 Patricia . . .	—	—	12.9	8.7	1906 Febr. 2.0	1910.0	90 41 57.0	23 21 16.1
437 Rhodia . . .	Jan. 6	13.6	12.7	10.1	1906 Nov. 9.0	1910.0	77 29 16.7	59 5 58.1
438 Zeuxo	—	—	11.8	8.8	1902 Nov. 23.5	1910.0	149 12 37.6	200 28 41.2
439 Ohio	Jan. 2	12.5	12.7	8.6	1900 Jan. 0.0	1910.0	30 57 55.5	231 8 28.0
440 Theodora . .	Sept. 18	12.7	13.1	10.9	1898 Okt. 18.5	1910.0	284 37 41.8	176 6 6.1

☊	i	φ	μ	Log. a	Autorität
38° 59′ 4″.6	6° 5′ 47″.1	2° 40′ 12″.6	583″.3070	0.5227396	Berberich.
129 42 3.3	11 50 5.2	6 24 49.0	868.759	0.407405	Coniel.
245 49 39.0	9 8 8.8	5 49 4.3	753.7444	0.4485217	Berberich.
92 48 21.3	14 3 57.8	11 41 13.6	849.07766	0.4140395	Berberich.
256 8 35.2	11 48 17.6	14 32 24.7	856.814	0.411412	Coniel.
317 9 4.5	4 14 56.5	10 10 53.0	710.727	0.465535	Berberich.
295 5 4.9	7 31 34.3	3 59 22.5	834.1108	0.4191886	Berberich.
299 37 51.7	9 6 14.2	7 54 31.1	627.210	0.501729	Berberich.
242 44 32.8	11 12 44.4	3 53 20.9	857.3857	0.411221	Kromm.
97 25 39.4	10 53 15.3	13 45 44.0	788.824	0.435346	P. V. Neugebauer
108 9 35.1	15 36 26.1	6 53 35.1	705.017	0.467871	Berberich.
106 41 22.8	13 45 36.1	2 27 5.2	772.8598	0.4412713	Berberich.
105 12 38.6	18 52 24.9	19 43 23.0	856.555	0.411501	Berberich.
113 29 44.5	9 38 22.8	5 29 23.8	540.7539	0.544671	Berberich.
128 20 25.3	8 5 38.4	17 36 27.4	762.3720	0.445227	Coddington.
58 38 36.6	12 55 45.4	12 35 49.6	761.6611	0.4454966	Boccardi.
199 56 31.4	6 35 47.5	8 5 25.9	759.1427	0.4464555	Berberich.
249 11 17.0	6 49 0.3	6 49 13.7	850.3282	0.4136133	Berberich.
230 13 39.6	3 57 7.7	14 49 58.8	849.6718	0.4138369	Berberich.
246 23 45.1	6 37 27.3	2 31 41.4	563.6312	0.5326744	Berberich.
188 3 30.6	7 51 32.7	17 0 44.2	879.0133	0.404008	Berberich.
9 0 42.8	5 0 17.4	12 22 39.2	1066.4426	0.348046	Witt.
70 19 25.1	11 15 54.4	1 57 21.5	660.6148	0.4867056	Berberich.
99 33 41.2	8 12 20.8	6 22 47.8	768.5707	0.442882	P. V. Neugebauer.
61 44 9.2	4 4 24.3	3 26 47.8	724.2913	0.460062	Pourteau.
312 6 53.5	19 37 42.9	5 53 54.4	722.4562	0.460797	Pourteau.
298 57 20.1	5 8 14.6	6 53 23.4	693.666	0.4725708	Berberich.
17 29 37.6	6 13 32.7	10 15 44.4	1009.005	0.364076	Villiger.
220 16 20.5	9 30 55.5	7 5 38.8	842.413	0.416321	Berberich.
250 0 10.6	14 33 20.9	14 55 51.9	743.475	0.452494	Berberich.
117 1 48.2	1 49 14.5	10 30 56.1	642.247	0.494870	Kreutz.
88 37 32.4	12 7 37.7	8 24 45.4	973.3410	0.3744944	Berberich.
303 37 3.5	10 49 41.2	12 52 58.8	2015.0581	0.1638127	Witt.
174 44 5.3	22 30 11.2	4 13 50.9	1308.6711	0.2887841	Berberich.
23 9 37.1	1 50 18.7	8 53 54.8	925.2776	0.3891563	Berberich.
352 3 5.4	18 36 7.8	4 45 46.3	622.0996	0.5040978	Berberich.
263 43 57.1	7 22 52.2	14 16 23.4	962.0481	0.3778732	Berberich.
49 27 2.4	7 14 50.7	2 57 7.6	869.450	0.407174	P. V. Neugebauer.
202 36 22.0	19 7 7.5	4 11 33.9	640.6167	0.495606	Coddington.
292 31 23.3	1 35 48.6	6 11 19.0	1079.355	0.344562	Coddington.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ' "	° ' "
441 Bathilde . . .	Aug. 9	12.8	12.5	9.0	1898 Dez. 14.0	1910.0	345 51 15.9	197 38 38.4
442 Eichsfeldia . .	Sept. 1	12.3	12.1	9.6	1904 Sept. 20.0	1900.0	137 33 29.2	82 6 9.8
443 Photographica	—	—	12.5	10.2	1906 April 3.0	1910.0	46 36 26.5	347 54 29.7
444 Gyptis	—	—	11.2	7.7	1903 Jan. 1.5	1910.0	149 27 0.8	151 50 26.2
445 Edna	Dez. 28	12.3	12.6	8.4	1900 Jan. 0.0	1910.0	19 1 55.0	77 37 38.4
446 Aeternitas . .	März 12	12.0	11.4	7.9	1899 Okt. 30.0	1910.0	55 26 20.6	277 33 39.1
447 Valentine . .	—	—	12.1	8.2	1904 Okt. 10.0	1910.0	345 51 50.7	316 23 5.9
448 Natalie	Dez. 27	13.9	13.4	9.3	1899 Nov. 29.5	1910.0	47 48 18.5	292 17 12.2
449 Hamburga . .	Sept. 26	12.5	12.0	9.0	1901 März 20.0	1910.0	38 7 28.0	44 40 10.3
450 Brigitta . . .	—	—	13.2	9.3	1899 Nov. 9.5	1910.0	19 17 44.8	358 38 58.0
451 Patientia . . .	—	—	10.6	6.6	1907 Mai 8.0	1910.0	146 4 45.4	332 26 55.3
452 Hamiltonia .	—	—	16.7	13.1	1899 Dez. 31.0	1910.0	296 42 7.9	46 40 54.3
453 Tea	Okt. 16	12.8	12.3	10.2	1902 Dez. 20.0	1910.0	243 0 28.6	217 47 49.9
454 Mathesis . . .	Dez. 26	11.9	11.6	8.5	1900 April 28.5	1910.0	352 56 10.1	174 34 18.7
455 Bruchsalia . .	Jan. 7	11.9	11.6	8.3	1907 Febr. 17.0	1910.0	124 26 46.8	269 25 10.9
456 Abnoba . . .	Nov. 26	13.8	12.9	9.4	1906 Nov. 9.0	1910.0	154 20 18.2	2 50 8.1
457 Alleghenia . .	Sept. 29	14.0	15.1	11.0	1900 Okt. 28.5	1910.0	351 0 33.8	129 8 9.7
458 Hercynia . .	—	—	13.1	9.1	1900 Okt. 31.0	1910.0	338 37 5.7	272 19 18.5
459 Signe	April 21	14.7	13.7	10.5	1900 Okt. 22.5	1910.0	348 14 27.2	17 55 45.7
460 Scania	Febr. 7	14.2	13.9	10.5	1900 Okt. 22.5	1910.0	14 38 31.6	163 33 0.4
461 Saskia	Sept. 19	14.3	14.3	10.1	1900 Okt. 22.5	1910.0	310 1 24.7	301 28 37.0
462 Eriphyla . . .	—	—	13.5	9.7	1902 Jan. 14.0	1910.0	119 30 21.2	248 37 32.6
463 Lola	—	—	14.0	11.4	1900 Okt. 31.5	1910.0	19 49 32.2	325 32 26.0
464 Megaira . . .	Febr. 19	13.2	12.2	8.6	1901 Jan. 9.5	1910.0	92 54 0.7	252 34 33.5
465 Alekto	Dez. 32	13.9	13.5	9.3	1901 Jan. 23.5	1910.0	293 53 59.6	272 32 36.6
466 Tisiphone . .	Okt. 27	12.1	11.8	7.3	1901 Jan. 23.5	1910.0	294 33 1.3	263 9 0.3
467 Laura	Jan. 11	13.9	14.3	10.5	1901 Febr. 11.5	1910.0	55 52 57.2	91 48 52.6
468 Lina	—	—	13.1	9.0	1901 Febr. 22.5	1910.0	118 51 21.4	331 2 19.6
469 Argentina . .	—	—	12.7	8.5	1907 April 24.5	1907.0	7 31 23.1	201 23 58.5
470 Kilia	—	—	12.9	10.3	1902 Okt. 21.0	1910.0	138 56 9.4	43 50 53.3
471 Papagena . .	Juni 25	10.3	10.1	6.2	1901 Mai 18.5	1910.0	240 50 24.4	311 1 39.0
472 Roma	—	—	11.5	8.5	1908 März 23.0	1910.0	115 27 18.6	295 11 15.8
473 Nolli	—	—	13.3	9.5	1901 Febr. 13.5	1910.0	95 13 40.1	57 6 40.8
474 Prudentia . .	—	—	13.0	10.2	1901 März 13.5	1910.0	223 19 18.1	142 45 18.1
475 Ocllo	—	—	13.5	10.2	1905 Juni 17.0	1910.0	317 7 14	301 29 56
476 Hedwig . . .	—	—	11.3	8.1	1902 Dez. 10.0	1910.0	156 21 50.5	356 54 43.2
477 Italia	März 5	13.1	12.1	9.5	1905 Nov. 3.5	1910.0	45 50 41.6	320 20 13.9
478 Tergeste . . .	Aug. 19	11.3	10.9	7.0	1904 Mai 5.0	1910.0	81 38 55.7	240 34 25.2
479 Caprera . . .	—	—	13.0	9.6	1901 Nov. 15.5	1910.0	2 12 53.0	269 14 42.9
480 Hansa	Dez. 27	11.3	11.5	8.3	1901 Mai 21.5	1910.0	179 11 11.8	196 39 14.2

Ω	i	φ	μ	Log. a	Autorität
254° 20′ 3″.7	8° 7′ 11″.7	4° 37′ 18″.6	753″.698	0.448538	Coniel.
134 38 45.4	6 3 42.0	4 0 17.7	987.3699	0.3703512	Thraen.
175 8 46.6	4 13 15.5	2 17 26.1	1075.9086	0.3454875	Thraen.
196 16 48.3	10 12 42.1	9 58 5.9	768.449	0.442928	Fabry.
293 31 41.4	21 23 34.9	11 57 45.5	624.2829	0.503084	Coddington.
42 40 49.5	10 39 3.8	7 7 3.2	761.5980	0.4455205	Pauly.
72 27 11.5	4 49 5.6	2 40 14.9	686.5435	0.475559	Kreutz.
38 52 17.9	12 41 52.5	9 54 2.5	636.068	0.497668	Berberich.
85 58 49.8	3 6 4.6	10 3 32.4	870.9880	0.406664	J. Möller.
15 37 54.5	10 23 9.4	5 21 56.4	677.749	0.479292	Paetsch.
89 51 4.6	15 14 39.9	4 19 46.7	662.60440	0.4858348	E. Grabowski.
92 51 38.8	3 13 15.1	1 13 23.3	736.622	0.455174	Palmer.
11 34 23.4	5 34 28.0	6 14 36.0	1099.965	0.339085	Hessen.
32 41 20.7	6 19 18.7	6 19 30.5	832.9439	0.419594	Milham.
77 26 56.4	12 1 45.3	16 59 20.2	818.8400	0.4245384	Berberich.
229 44 19.0	14 26 8.9	10 26 41.9	763.4835	0.4448046	Berberich.
250 46 42.0	12 52 29.5	10 20 2.3	651.8517	0.490572	Paetsch.
136 4 46.1	12 36 10.3	14 8 5.4	685.852	0.475851	Riem.
29 49 51.8	10 22 44.4	12 19 50.0	832.007	0.419920	Bauschinger.
205 45 2.7	4 35 26.1	5 53 49.8	791.305	0.434442	Bauschinger.
156 40 56.9	1 22 20.6	11 54 22.6	624.571	0.502950	Bauschinger.
105 51 10.2	3 10 27.9	4 45 25.7	727.9361	0.4586089	Berberich.
36 34 17.3	13 29 59.6	12 42 56.7	960.910	0.378216	Berberich.
103 51 32.4	10 51 46.9	14 39 57.7	742.582	0.452841	Berberich.
305 33 19.5	4 37 48.6	13 45 49.7	622.160	0.504070	Bauschinger.
291 49 53.9	19 16 2.2	4 45 26.8	576.785	0.525995	Berberich.
323 56 20.1	6 24 26.3	6 20 17.4	704.103	0.468247	Berberich.
22 26 55.3	0 29 45.3	11 47 14.8	637.306	0.497106	Bauschinger.
335 11 17.5	11 45 15.4	8 58 51.8	626.309	0.502146	Lamson.
173 15 58.1	7 13 35.5	5 29 58.5	952.3542	0.380805	Kreutz.
84 53 56.1	14 51 29.5	13 9 45.7	722.6458	0.4607207	Strömberg.
127 1 58.8	15 51 45.3	5 37 39.1	875.7359	0.405089	Zappa.
333 35 9.8	27 46 32.2	14 48 41.2	690.051	0.474084	Berberich.
162 55 11.4	7 32 22.0	8 27 23.1	916.700	0.391853	Berberich.
35 53 33	18 38 42	22 22 4	848.6730	0.414177	Strömgren.
286 41 44.8	10 56 39.3	4 16 2.1	823.2035	0.4229996	Strömgren.
10 44 48.5	5 18 41.0	10 57 18.2	944.572	0.383182	G. Abetti.
234 47 14.1	13 9 38.6	4 58 6.5	677.025	0.4796008	de Mello e Simas.
136 31 40.9	8 39 23.8	12 42 44.4	788.048	0.435636	Bauschinger.
237 12 44.8	21 4 48.4	2 25 49.4	826.814	0.421732	Bauschinger.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M ° ′ ″	ω ° ′ ″
481 Emita . . .	Jan. 24	11.2	11.6	8.2	1907 März 9.0	1910.0	104 59 56.4	345 50 34.8
482 Petrina . . .	—	—	12.0	8.1	1902 Mai 7.5	1910.0	288 7 6.3	85 31 11.3
483 Seppina . .	Sept. 22	12.3	12.5	7.9	1906 Dez. 19.0	1910.0	127 58 51.7	141 39 57.0
484 Pittsburghia	Juni 1	12.8	12.9	9.7	1906 April 3.0	1910.0	235 12 27.0	185 49 40.1
485 Genua . . .	April 27	11.6	11.4	8.0	1904 Okt. 3.5	1910.0	294 18 38.9	268 33 3.0
486 Cremona . .	Dez. 21	14.0	13.5	11.0	1902 Mai 28.5	1910.0	16 33 54.5	125 7 57.5
487 Venetia . .	Aug. 29	11.6	11.8	8.6	1907 Okt. 15.5	1910.0	348 41 50.6	278 27 28.3
488 Kreusa . . .	—	—	11.5	7.3	1906 Jan. 0.5	1910.0	302 39 32.2	62 35 51.0
489 Comacina .	—	—	12.5	8.3	1902 Sept. 2.5	1910.0	139 29 9.0	28 29 52.4
490 Veritas . . .	März 22	12.7	12.3	8.1	1902 Sept. 3.5	1910.0	348 28 27.2	187 46 6.0
491 Carina . . .	März 26	12.8	12.5	8.3	1903 Jan. 0.0	1910.0	340 41 39.1	225 2 45.0
492 Gismonda .	März 21	13.8	13.1	9.0	1902 Sept. 4.0	1910.0	12 56 28.0	287 27 2.1
493 Griseldis . .	—	—	14.5	10.4	1902 Sept. 7.5	1910.0	329 46 50.6	38 26 36.2
494 Virtus . . .	Juni 26	11.9	12.3	8.4	1902 Nov. 27.5	1910.0	144 15 51.5	209 9 31.0
495 Eulalia . . .	—	—	12.5	9.7	1902 Nov. 21.5	1910.0	20 56 40.0	200 0 35.6
496 Gryphia . .	Juli 28	13.4	13.0	11.0	1902 Nov. 21.5	1910.0	331 47 44.7	240 34 28.4
497 Iva	Juli 11	12.6	13.5	9.9	1902 Nov. 4.5	1910.0	20 53 34.8	358 54 17.3
498 Tokio . . .	Dez. 30	11.7	11.2	8.1	1904 März 14.0	1910.0	167 52 1.5	237 34 18.5
499 Venusia . .	Jan. 25	11.8	13.0	7.7	1903 Jan. 31.5	1910.0	9 23 52.0	195 51 25.8
500 Selinur . . .	—	—	12.0	8.9	1903 März 4.5	1910.0	99 39 4.6	71 48 18.3
501 Urhixidur .	Juni 18	12.8	13.0	8.8	1903 Jan. 19.5	1910.0	119 32 12.0	346 41 52.2
502 Sigune . . .	Mai 16	13.6	13.8	11.2	1907 Febr. 17.0	1910.0	2 59 40.1	16 59 22.3
503 Evelyn . . .	—	—	12.3	9.0	1903 April 25.5	1910.0	33 37 22.7	38 7 0.1
504 Cora	Juli 19	11.7	12.7	9.3	1907 Sept. 25.0	1910.0	18 9 10.2	244 36 55.0
505 Cava	Aug. 5	12.2	12.0	8.7	1907 Okt. 15.0	1910.0	321 50 49.2	333 59 2.7
506 Marion . . .	Sept. 7	12.6	12.5	8.5	1903 Febr. 20.5	1910.0	46 27 14.1	144 59 20.9
507 Laodica . .	Juli 26	12.4	12.5	8.3	1903 Febr. 24.5	1910.0	104 44 50.4	94 33 57.4
508 Princetonia	Nov. 1	12.3	12.3	8.1	1903 April 25.5	1910.0	4 34 0.9	161 33 54.7
509 Iolanda . .	Dez. 29	11.5	11.5	7.5	1906 Jan. 28.5	1910.0	39 8 50.3	153 10 33.8
510 Mabella . .	März 20	13.1	13.0	9.8	1903 Juli 18.5	1910.0	338 1 0.1	87 40 58.5
511 Davida . . .	Dez. 4	8.4	9.6	5.4	1903 Aug. 15.5	1910.0	182 32 43.8	329 19 55.8
512 Taurinensis	—	—	12.5	10.5	1903 Juli 16.5	1910.0	310 15 34.2	246 49 13.6
513 Centesima .	Febr. 23	12.5	12.3	8.4	1903 Okt. 24.5	1910.0	327 27 39.5	208 58 33.7
514 Armida . .	Febr. 1	12.5	12.4	8.4	1906 Febr. 22.0	1910.0	136 47 7.0	106 3 52.0
515 Athalia . .	—	—	14.0	9.9	1903 Sept. 20.5	1910.0	317 8 30.0	288 44 14.8
516 Amherstia .	Juli 31	10.2	11.0	7.7	1908 Nov. 18.5	1910.0	189 0 21.8	254 6 6.4
517 Edith	—	—	13.1	9.0	1903 Okt. 25.5	1910.0	339 41 33.4	125 52 36.5
518 Halawe . . .	Okt. 28	12.7	13.4	10.5	1903 Okt. 20.5	1910.0	47 47 29.0	118 29 22.7
519 Sylvania . .	Mai 3	12.4	12.0	8.5	1903 Okt. 26.5	1910.0	37 10 6.6	298 37 26.2
520 Franziska .	April 19	14.4	13.9	10.0	1903 Okt. 27.5	1910.0	355 18 52.9	16 18 2.0

☊	i	φ	μ	Log. a	Autorität
67° 5′ 43.″9	9° 52′ 33.″4	9° 10′ 37.″1	782.″8688	0.437545	Osten.
180 20 8.8	14 27 21.8	5 18 49.8	683.838	0.476703	P. V. Neugebauer.
175 32 15.8	18 37 40.3	2 59 43.4	557.6847	0.535745	Paetsch.
127 26 45.0	12 29 12.2	3 23 42.7	813.1477	0.4265580	Berberich.
194 22 25.9	13 48 10.4	10 57 57.6	777.060	0.439700	P. V. Neugebauer.
94 11 26.5	11 6 47.3	9 20 22.6	977.329	0.373311	Berberich.
115 5 36.2	10 14 21.3	4 56 30.7	813.33738	0.4264906	Bianchi.
86 39 37.2	11 36 16.3	9 21 6.0	633.233	0.498962	Morgan.
167 37 5.1	13 24 57.5	3 47 16.7	634.671	0.498305	Berberich.
179 15 21.1	9 13 7.2	5 7 59.7	627.551	0.501572	Münch.
176 1 20.6	18 56 44.4	3 42 55.3	620.5529	0.504821	Lassen.
47 13 18.7	1 39 33.0	10 34 19.0	649.105	0.491795	Hessen.
358 41 15.8	15 25 42.0	9 17 51.5	641.417	0.495244	Berberich.
39 4 55.2	7 8 37.6	3 37 33.6	688.142	0.474886	G. Abetti.
186 27 59.0	2 14 13.1	8 28 23.6	910.120	0.393938	P. V. Neugebauer.
206 45 14.2	3 37 6.6	4 15 29.6	1103.453	0.338168	Berberich.
7 1 39.4	4 53 46.0	17 25 44.2	740.971	0.453470	Berberich.
98 1 47.9	9 33 4.0	12 47 51.8	823.2586	0.422980	P. V. Neugebauer.
256 45 22.3	2 0 25.2	13 34 32.1	457.624	0.592999	Berberich.
290 29 11.7	9 47 15.7	8 8 23.0	840.020	0.417144	Berberich.
358 4 33.5	20 49 30.8	8 14 41.4	630.916	0.500024	P. V. Neugebauer.
132 41 16.8	25 3 43.4	10 17 7.7	965.064	0.376967	Osten.
69 31 24.1	5 3 33.4	10 12 32.5	788.475	0.435479	Liebmann.
105 17 44.1	12 56 51.7	12 28 13.5	790.4529	0.434754	Osten.
91 8 46.2	9 47 29.5	14 6 50.2	805.8993	0.429151	Osten.
313 36 55.5	16 53 18.3	8 19 48.2	669.497	0.482839	Berberich.
295 14 4.1	9 33 26.6	5 47 47.4	632.696	0.499208	Bauschinger.
45 20 39.5	13 24 2.0	0 40 50.2	631.586	0.499716	Berberich.
218 26 48.9	15 22 46.1	5 34 11.6	660.724	0.486658	P. V. Neugebauer.
203 33 10.2	9 30 37.0	11 4 49.0	838.933	0.417520	Berberich.
108 50 30.7	15 50 35.0	11 8 23.3	630.6576	0.500142	Zinner.
107 9 26.7	8 40 0.2	14 23 28.7	1107.602	0.337032	Berberich.
185 49 9.3	9 28 24.1	5 0 12.4	677.958	0.479204	P. V. Neugebauer.
270 11 57.9	3 52 8.7	2 34 14.7	667.6424	0.4836418	Berberich.
122 6 47.5	2 0 50.7	10 3 36.2	645.556	0.493382	Berberich.
330 26 47.1	13 3 0.9	16 1 27.1	810.64382	0.427451	Fontana.
277 45 24.7	3 9 58.2	10 6 5.7	641.8172	0.4950634	A. Kohlschütter.
203 57 40.2	6 37 46.0	12 42 29.2	885.773	0.401789	Berberich.
45 23 10.7	11 1 48.4	10 53 8.0	761.032	0.445736	Berberich.
35 5 35.2	11 0 18.8	6 0 18.2	680.357	0.478180	Götz.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
521 Brixia	Juni 24	12.7	12.1	8.7	1909 Febr. 26.5	1910.0	73° 29′ 45.1″	312° 31′ 31.6″
522 Helga	Jan. 22	12.8	12.6	7.7	1904 Jan. 10.5	1910.0	105 10 19.0	243 3 50.8
523 Ada	Juni 29	13.7	12.8	9.0	1904 Jan. 27.5	1910.0	27 56 2.5	185 12 52.8
524 Fidelio . . .	Dez. 19	11.9	12.4	9.2	1904 März 18.5	1910.0	105 51 23.0	76 39 52.3
525 Adelaide . .	April 19	15.2	13.8	9.3	1904 März 18.5	1910.0	69 22 2.8	281 27 50.8
526 Jena	Juli 23	13.8	13.1	9.0	1909 Febr. 6.0	1910.0	359 19 18.1	357 35 43.8
527 Euryanthe .	—	—	12.5	9.2	1904 März 20.5	1910.0	258 56 2.1	199 40 42.4
528 Rezia	Mai 12	12.4	12.4	7.8	1904 März 24.5	1910.0	156 3 49.2	337 43 36.1
529 Preziosa . .	Aug. 12	12.9	13.0	9.1	1904 März 24.5	1910.0	138 10 8.7	336 38 38.9
530 Turandot . .	Aug. 17	11.4	12.4	8.2	1904 April 18.5	1910.0	268 13 53.6	188 19 26.3
531 Zerlina . . .	Dez. 14	15.1	14.0	10.5	1904 April 12.5	1910.0	329 16 0.7	53 51 42.6
532 Herculina . .	Nov. 18	10.3	9.8	6.3	1904 Mai 5.5	1910.0	18 56 34.1	72 59 41.2
533 Sara	Okt. 14	13.7	13.5	9.6	1904 April 19.5	1910.0	335 57 42.3	58 34 53.1
534 Nassovia . .	Okt. 18	12.5	12.8	9.2	1904 Mai 19.5	1910.0	128 10 32.6	344 51 41.9
535 Montague . .	—	—	11.8	8.8	1904 Juni 3.5	1910.0	86 4 14.8	58 53 6.4
536 Merapi . . .	Juni 18	11.6	11.7	7.0	1904 Mai 12.0	1910.0	254 58 24.4	292 45 11.7
537 Pauly	Dez. 17	13.9	13.1	9.1	1904 Juli 15.5	1910.0	350 27 47.1	181 9 24.9
538 Friederike .	Dez. 31	13.1	13.2	9.0	1904 Juli 19.5	1910.0	318 36 36.4	222 52 26.0
539 Pamina . . .	Febr. 18	13.9	13.1	9.7	1904 Aug. 5.5	1910.0	325 31 4.8	94 0 8.3
540 Rosamunde .	Sept. 29	12.7	12.1	10.0	1904 Aug. 6.5	1910.0	132 29 40.5	334 20 33.8
541 Deborah . .	—	—	12.9	9.4	1904 Aug. 4.5	1910.0	60 42 30.4	349 26 1.9
542 Susanna . .	Jan. 13	12.9	12.8	9.0	1904 Aug. 16.5	1910.0	345 9 28.2	212 57 44.6
543 Charlotte . .	—	—	12.7	8.7	1904 Nov. 11.5	1910.0	348 26 5.2	105 5 43.9
544 Jetta	März 14	12.6	12.6	9.5	1904 Nov. 6.5	1910.0	89 4 27.2	338 21 35.6
545 Messalina . .	Dez. 39	13.1	12.2	8.0	1907 Mai 8.0	1910.0	222 1 28.4	326 21 17.4
546 Herodias . .	Mai 28	12.4	12.1	9.0	1904 Okt. 13.5	1910.0	259 39 22.4	107 27 20.0
547 Praxedis . .	März 26	13.7	12.7	9.2	1904 Nov. 17.5	1910.0	11 9 44.8	193 3 13.7
548 Kressida . .	Dez. 2	11.9	13.2	10.8	1904 Okt. 14.5	1910.0	336 36 46.1	318 28 31.0
549 Jessonda . .	Juni 8	14.6	13.5	10.2	1904 Dez. 27.5	1910.0	358 10 57.7	153 34 32.7
550 Senta	April 26	11.7	11.9	8.8	1906 Febr. 22.0	1910.0	202 36 44.3	42 55 16.4
551 Ortrud . . .	März 12	12.9	12.8	9.0	1905 Jan. 15.5	1910.0	12 40 32.4	62 4 4.5
552 Sigelinde . .	Jan. 2	12.4	12.2	8.0	1905 Jan. 9.5	1910.0	206 12 40.7	329 48 30.1
553 Kundry . . .	—	—	13.7	11.5	1905 Jan. 9.5	1910.0	16 23 30.6	357 50 30.4
554 Peraga . . .	Nov. 20	9.8	10.8	8.2	1905 Jan. 0.0	1910.0	41 20 15.3	124 24 50.3
555 Norma . . .	März 6	13.2	13.9	9.7	1905 Jan. 14.5	1910.0	2 59 42.0	350 52 47.9
556 Phyllis . . .	Sept. 29	12.5	12.5	9.7	1905 Jan. 16.5	1910.0	15 36 17.7	175 3 52.5
557 Violetta . . .	Okt. 26	13.7	13.7	11.0	1905 Jan. 14.5	1910.0	1 42 52.4	190 0 23.4
558 Carmen . . .	Mai 22	12.4	12.2	8.5	1905 Febr. 9.5	1910.0	41 17 34.4	314 40 14.0
559 Nanon . . .	Okt. 2	12.6	12.3	9.0	1905 April 20.5	1910.0	321 9 51.5	125 30 48.5
560 Delila	Juli 30	14.0	13.4	10.0	1905 März 13.5	1910.0	22 18 46.4	33 12 22.8

☊	i	φ	μ	Log. a	Autorität
90° 27′ 43″.3	10° 29′ 22″.5	16° 16′ 9″.4	780″.20191	0.4385331	Millosevich.
119 17 8.3	4 28 18.3	4 32 44.0	513.919	0.559408	Lassen.
262 13 56.0	4 18 47.0	10 8 17.0	694.113	0.472384	Berberich.
327 6 38.6	8 11 46.3	6 24 2.8	825.223	0.422290	Berberich.
125 54 33.5	3 15 5.6	21 46 42.6	581.342	0.523718	P. V. Neugebauer.
137 54 21.8	2 8 33.4	8 5 57.9	644.22959	0.4939773	Knopf.
120 46 3.7	9 39 56.4	8 38 46.0	787.582	0.435808	P. V. Neugebauer.
51 49 29.5	12 42 51.3	1 8 5.7	566.409	0.531251	Berberich.
65 53 19.6	11 3 40.1	5 45 4.2	676.264	0.479926	P. V. Neugebauer.
130 9 13.2	8 26 1.0	10 27 17.8	611.920	0.508874	P. V. Neugebauer.
197 49 0.0	34 33 0.7	10 54 44.6	756.474	0.447475	Berberich.
108 19 46.1	16 22 36.6	10 6 31.8	768.8133	0.4427907	Götz.
180 44 25.0	6 23 16.4	3 25 57.8	685.108	0.476166	P. V. Neugebauer.
93 39 56.2	3 19 29.4	5 47 47.7	725.560	0.459556	Bauschinger.
84 45 17.8	6 48 8.9	1 51 11.1	862.724	0.409423	Dugan.
60 56 14.5	19 24 8.1	5 38 12.5	541.600	0.544219	Strömgren.
121 24 30.4	9 46 21.3	13 3 35.4	654.252	0.489508	P. V. Neugebauer.
142 24 22.1	6 36 23.2	9 22 44.9	630.980	0.499994	P. V. Neugebauer.
275 38 29.8	6 47 21.6	12 20 17.6	782.672	0.437618	P. V. Neugebauer.
202 1 49.9	5 33 15.2	5 3 8.0	1074.237	0.345938	P. V. Neugebauer.
268 30 54.8	5 57 29.6	2 33 35.6	751.048	0.449560	P. V. Neugebauer.
153 36 20.7	12 2 13.0	8 13 33.7	715.690	0.463521	Berberich.
296 40 42.9	8 26 57.2	9 2 0.8	662.328	0.485955	Berberich.
298 53 17.1	8 19 4.4	8 37 38.8	849.653	0.413843	Berberich.
334 27 2.5	11 11 0.7	10 35 10.4	626.1741	0.5022077	Berberich.
22 0 59.4	14 54 14.2	6 30 4.0	847.004	0.414747	Berberich.
193 29 59.2	16 56 38.9	13 46 3.9	769.074	0.442693	Berberich.
108 6 36.2	3 52 2.4	10 43 4.5	1029.495	0.358255	Berberich.
292 25 37.8	3 55 44.4	14 55 43.6	805.659	0.429237	Berberich.
271 4 28.4	10 6 47.1	12 38 44.0	850.6748	0.4134954	Berberich.
9 2 55.5	0 26 16.7	7 2 31.5	694.369	0.472277	Berberich.
268 49 48.1	7 26 1.8	4 3 57.6	631.413	0.499796	Berberich.
71 58 47.4	5 17 7.4	6 21 40.1	1073.630	0.346101	Berberich.
295 48 6.5	2 56 14.3	8 54 53.0	969.164	0.375740	Abetti.
130 57 4.1	2 38 44.7	8 50 39.9	624.247	0.503100	Berberich.
285 55 15.3	5 14 18.5	5 46 43.4	915.845	0.392123	Berberich.
293 25 59.7	2 31 9.7	5 35 58.3	926.968	0.388628	Berberich.
144 19 47.1	8 21 1.0	2 14 1.0	715.481	0.463606	Berberich.
112 27 18.8	9 18 13.9	3 45 2.0	794.666	0.433215	Berberich.
103 45 8.8	8 13 39.4	7 5 19.7	778.172	0.439287	Berberich.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
561 Ingwelde . .	April 22	14.0	13.9	9.7	1905 März 30.5	1910.0	67° 22′ 32.6″	302° 12′ 58.7″
562 Salome . . .	Juni 18	12.6	12.9	9.0	1905 April 8.5	1910.0	241 39 15.7	257 21 3.7
563 Suleika . . .	Aug. 21	10.9	11.1	7.8	1905 Mai 30.5	1910.0	153 53 28.2	333 32 22.6
564 Dudu	Dez. 3	14.7	13.7	10.3	1905 Mai 9.5	1910.0	329 11 6.8	211 29 56.6
565 Marbachia .	—	—	12.9	10.2	1905 Mai 9.5	1910.0	69 45 0.0	290 15 39.7
566 Stereoskopia	Mai 21	12.0	11.5	7.0	1905 Juni 1.5	1910.0	232 36 44.7	303 22 29.6
567 Eleutheria .	Juli 15	13.0	13.1	9.0	1905 Juni 3.5	1910.0	34 48 12.4	149 57 2.9
568 Cheruskia . .	—	—	12.3	8.6	1905 Aug. 21.5	1910.0	291 43 54.1	170 31 48.8
569 Misa	—	—	12.4	9.2	1905 Juli 27.5	1910.0	271 43 15.6	137 54 52.4
570 [1905 *QX*] .	Juli 22	12.4	12.7	8.1	1905 Aug. 3.5	1910.0	323 12 44.3	139 5 21.5
571 [1905 *QZ*] .	April 9	15.0	13.8	11.2	1905 Okt. 2.5	1910.0	345 47 59.8	23 33 36.0
572 [1905 *RB*] .	Mai 5	13.8	12.9	10.5	1905 Sept. 19.5	1910.0	339 5 16.1	198 29 16.4
573 [1905 *RC*] .	Dez. 10	12.9	13.2	9.2	1905 Sept. 19.5	1910.0	346 7 29.5	28 47 17.0
574 [1905 *RD*] .	Mai 29	15.2	14.3	12.0	1905 Sept. 30.5	1905.0	329 33 9.9	74 58 58.3
575 [1905 *RE*] .	Jan. 11	14.0	13.5	10.5	1905 Okt. 4.5	1910.0	28 6 33.6	337 56 22.3
576 Emanuela . .	Nov. 27	12.7	12.7	8.8	1905 Sept. 22.5	1910.0	11 14 22.6	31 22 7.0
577 [1905 *RH*] .	Nov. 15	13.3	13.0	8.9	1905 Okt. 30.5	1910.0	71 29 57.1	321 2 10.2
578 [1905 *RZ*] .	—	—	12.0	8.6	1905 Nov. 1.5	1910.0	100 27 0.3	257 57 17.2
579 [1905 *SD*] .	—	—	11.5	7.6	1905 Nov. 23.5	1910.0	97 39 16.0	231 12 32.5
580 [1905 *SE*] .	Dez. 41	13.4	13.7	9.6	1906 Febr. 12.5	1910.0	31 51 48.2	315 13 19.9
581 Tauntonia .	Dez. 46	13.5	13.7	9.4	1905 Dez. 24.5	1910.0	28 33 46.5	320 23 29.0
582 [1906 *SO*] .	Mai 24	13.5	12.6	9.5	1906 Jan. 23.5	1910.0	19 35 13.9	308 33 14.2
583 Klotilde . . .	Dez. 15	12.6	13.1	8.9	1906 Jan. 0.0	1910.0	295 18 26.6	239 22 21.6
584 [1906 *SY*] .	Mai 5	12.3	11.5	8.9	1906 Jan. 15.5	1910.0	84 51 19.1	83 0 39.3
585 [1906 *TA*] .	Aug. 9	13.4	12.7	10.0	1906 Febr. 16.5	1910.0	7 29 29.6	326 1 33.1
586 [1906 *TC*] .	Jan. 20	12.6	12.9	9.0	1906 Febr. 21.5	1910.0	49 39 30.5	218 56 14.0
587 [1906 *TF*] .	Aug. 29	15.1	14.3	11.8	1906 März 18.5	1910.0	3 2 13.5	185 45 37.2
588 Achilles . .	Juli 7	15.0	14.2	7.7	1906 Febr. 22.5	1910.0	43 45 37.0	129 24 4.8
589 Croatia . . .	Jan. 31	12.8	12.7	8.6	1906 März 23.5	1910.0	141 5 33.1	210 53 18.5
590 [1906 *TO*] .	März 8	13.1	13.1	9.2	1906 April 2.5	1910.0	96 46 55.1	329 50 3.8
591 [1906 *TP*] .	Juni 23	13.1	13.5	10.3	1906 März 18.5	1910.0	346 2 9.3	215 31 37.9
592 [1906 *TS*] .	Febr. 20	12.8	12.8	8.9	1906 März 23.5	1910.0	103 51 54.2	248 14 0.9
593 [1906 *TT*] .	Mai 16	12.9	12.4	9.1	1906 März 20.5	1910.0	49 9 33.4	27 49 39.4
594 [1906 *TW*] .	Sept. 12	15.2	15.0	11.8	1906 März 30.5	1910.0	336 10 41.3	76 0 16.4
595 [1906 *TZ*] .	März 4	12.3	12.1	7.8	1906 Mai 18.5	1910.0	291 37 29.7	264 26 33.1
596 [1906 *UA*] .	März 12	11.7	12.0	8.2	1906 Febr. 22.5	1910.0	296 49 40.2	172 26 41.9
597 [1906 *UB*] .	Aug. 6	11.6	12.8	9.5	1906 April 16.5	1910.0	287 19 14.6	273 58 52.1
598 [1906 *UC*] .	April 22	13.1	12.0	8.5	1906 April 16.5	1910.0	161 51 51.1	285 28 7.5
599 [1906 *UJ*] .	Juni 13	11.2	12.4	8.8	1906 April 28.5	1910.0	278 5 44.3	290 3 48.7
600 [1906 *UM*] .	Sept. 8	13.0	13.0	9.8	1906 Juni 22.5	1910.0	12 41 3.5	112 42 34.8

☊	i	φ	μ	Log. a	Autorität
160° 33′ 57″.6	1° 30′ 49″.2	8° 42′ 31″.0	624″.357	0.503049	Berberich.
71 41 19.7	11 8 31.6	5 25 14.8	677.324	0.479473	Berberich.
84 55 34.2	10 20 46.8	13 56 47.2	792.084	0.434157	Berberich.
71 19 29.8	18 11 23.1	15 49 3.5	778.746	0.439074	Berberich.
225 54 9.2	10 53 58.1	7 18 40.0	931.272	0.387286	Berberich.
81 31 55.4	5 1 28.0	6 55 16.7	577.344	0.525714	Berberich.
59 10 18.8	8 59 6.6	4 55 30.7	641.903	0.495025	Berberich.
250 11 39.3	18 21 5.4	9 40 10.3	725.727	0.459489	Berberich.
303 23 10.5	1 17 41.6	10 39 40.4	819.260	0.424390	Hackenberg.
229 45 19.8	1 41 9.4	6 28 5.2	559.597	0.534754	Berberich.
3 24 2.5	5 7 16.2	13 48 56.0	969.479	0.375645	Berberich.
194 51 53.3	9 23 27.6	10 0 31.0	1008.005	0.364362	Berberich.
343 54 36.1	9 52 9.7	6 22 6.9	678.763	0.478859	Berberich.
336 56 23.3	5 41 19.2	14 3 52.9	1045.070	0.353908	Berberich.
349 39 6.8	14 54 14.6	6 58 24.8	866.098	0.408293	Berberich
300 12 40.5	10 12 1.3	10 59 27.9	672.075	0.481725	Berberich.
331 16 20.9	5 16 23.6	8 17 18.0	644.417	0.493893	P. V. Neugebauer.
30 35 21.5	6 11 45.6	11 9 8.7	775.472	0.440294	Kreutz.
83 21 40.4	11 2 4.4	4 35 58.0	677.103	0.479568	P. V. Neugebauer.
99 40 3.9	3 40 33.0	7 38 52.2	618.613	0.505726	P. V. Neugebauer.
103 8 5.6	21 55 39.1	2 30 51.4	615.963	0.506968	Morgan.
155 39 3.4	29 57 18.6	13 4 0.2	837.303	0.418083	Berberich.
261 26 58.1	8 17 15.3	8 31 10.8	629.074	0.500870	Osten.
282 44 25.6	10 50 13.4	14 24 37.0	962.562	0.377718	P. V. Neugebauer.
180 14 3.6	7 30 54.9	7 29 19.0	937.316	0.385414	P. V. Neugebauer.
231 1 22.4	1 35 36.2	4 27 6.5	674.790	0.480558	P. V. Neugebauer.
324 13 40.9	25 1 30.4	9 29 40.6	995.965	0.367842	Berberich.
315 34 34.0	10 16 37.5	8 10 14.6	294.703	0.720415	Bidschof.
178 44 4.8	10 47 14.6	2 54 51.2	640.839	0.495506	P. V. Neugebauer.
106 47 6.7	11 9 39.0	3 53 41.4	684.296	0.476508	Berberich.
334 51 31.5	12 33 50.6	12 1 41.4	807.881	0.428440	Berberich.
169 15 27.2	10 6 31.5	7 1 12.3	676.021	0.480030	P. V. Neugebauer.
76 18 2.1	17 0 16.1	12 17 10.9	799.698	0.431387	Berberich.
155 23 47.7	32 45 44.5	20 27 11.7	833.298	0.419471	Berberich.
25 0 50.1	18 21 57.6	4 17 47.8	620.181	0.504992	P. V. Neugebauer.
71 7 48.6	14 38 14.8	9 26 11.2	706.587	0.467228	Berberich.
36 16 35.2	10 17 14.7	10 28 40.2	803.648	0.429960	Berberich.
92 29 18.9	12 10 13.6	14 5 50.8	770.503	0.442154	Berberich.
45 33 2.7	16 33 46.0	17 15 7.2	768.430	0.442925	Frederickson.
139 38 9.7	10 11 18.4	3 8 12.2	817.198	0.425120	Hammond und Frederickson.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
601 [1906 *UN*] .	Mai 14	12.6	12.6	8.5	1906 Juli 12.0	1910.0	328° 53′ 13.5″	148° 32′ 23.8″
602 Marianna . .	Jan. 29	12.2	12.1	8.0	1907 Jan. 0.0	1910.0	169 19 30.4	41 36 46.0
603 [1906 *TJ*] .	Juni 22	14.3	13.9	10.9	1907 Jan. 0.0	1910.0	82 16 11.2	155 30 12.8
604 [1906 *TK*] .	—	—	12.4	8.2	1906 Febr. 16.5	1910.0	85 46 42.3	22 22 2.3
605 [1906 *UU*] .	Okt. 27	12.4	12.9	9.0	1906 Aug. 28.5	1910.0	38 19 40.6	13 42 45.9
606 [1906 *VB*] .	—	—	12.9	9.8	1906 Sept. 18.5	1910.0	354 2 14.3	55 33 48.3
607 [1906 *VC*] .	Okt. 12	13.1	12.6	9.0	1906 Sept. 18.5	1910.0	149 52 0.0	285 42 55.8
608 [1906 *VD*] .	Aug. 31	13.5	14.1	10.2	1906 Sept. 18.5	1910.0	2 17 9.8	69 12 50.4
609 [1906 *VF*] .	Aug. 30	12.9	12.8	8.9	1906 Sept. 24.5	1910.0	104 8 36.7	94 43 37.9
610 [1906 *VK*] .	Aug. 10	14.7	15.6	11.6	1906 Sept. 26.5	1910.0	356 4 8.3	352 44 47.4
611 [1906 *VL*] .	Sept. 25	13.5	12.3	9.8	1906 Nov. 2.5	1910.0	311 33 44.1	254 17 51.7
612 [1906 *VN*] .	Juni 10	13.5	14.6	10.4	1906 Okt. 8.5	1910.0	24 11 21.4	296 32 0.0
613 [1906 *VP*] .	Okt. 24	12.8	13.0	9.3	1906 Okt. 14.5	1910.0	334 44 46.7	60 58 25.9
614 [1906 *VQ*] .	Dez. 37	13.1	13.7	10.2	1906 Okt. 11.5	1910.0	333 21 2.4	201 42 34.6
615 [1906 *VR*] .	Dez. 26	13.1	12.6	9.4	1906 Okt. 11.5	1910.0	121 12 10.4	243 35 21.6
616 [1906 *VT*] .	—	—	12.7	9.7	1906 Okt. 8.5	1910.0	284 39 35.2	107 53 55.7
617 Patroclus . .	März 11	13.3	12.6	5.9	1907 Dez. 14.0	1910.0	73 1 24.7	302 25 48.2
618 [1906 *VZ*] .	Aug. 15	12.1	12.4	8.2	1906 Okt. 25.5	1910.0	33 7 17.6	235 5 21.8
619 [1906 *WC*] .	—	—	12.1	9.2	1906 Okt. 22.5	1910.0	35 14 23.9	174 46 28.1
620 Drakonia . .	—	—	13.6	10.6	1906 Nov. 6.5	1910.0	58 40 35.1	332 29 0.4
621 [1906 *WJ*] .	Okt. 8	13.8	13.9	9.9	1906 Nov. 14.5	1910.0	332 9 17.0	29 15 48.6
622 [1906 *WP*] .	Jan. 12	12.1	12.8	10.1	1906 Dez. 18.5	1910.0	19 40 58.6	253 50 19.2
623 [1907 *XJ*] .	Febr. 18	12.6	12.8	10.0	1907 Febr. 5.5	1910.0	51 17 38.0	123 13 4.8
624 Hektor . . .	Juni 30	13.2	13.2	6.4	1907 Febr. 10.0	1910.0	335 47 12.3	183 51 50.9
625 [1907 *XN*] .	Jan. 31	13.1	12.1	8.9	1907 Febr. 21.5	1910.0	180 11 33.7	201 26 39.0
626 [1907 *XO*] .	Febr. 10	11.7	11.4	8.4	1907 Febr. 21.5	1910.0	97 38 46.1	42 16 40.4
627 [1907 *XS*] .	—	—	13.1	9.3	1907 März 7.5	1910.0	211 24 57.4	152 11 26.3
628 [1907 *XT*] .	Febr. 3	12.5	12.2	9.2	1907 März 12.5	1910.0	185 26 16.9	213 34 40.0
629 [1907 *XU*] .	Dez. 9	13.1	13.8	9.7	1907 März 7.5	1910.0	21 17 50.2	31 40 42.7
630 [1907 *XW*] .	Jan. 5	13.0	13.5	10.3	1907 März 12.5	1910.0	5 28 27.0	42 42 27.6
631 [1907 *YJ*] .	Febr. 7	12.0	12.3	8.8	1907 April 11.5	1910.0	66 40 35.6	276 20 22.3
632 [1907 *YX*] .	März 9	14.1	14.5	11.3	1907 April 12.5	1910.0	339 21 29.5	248 15 59.6
633 [1907 *ZM*] .	Febr. 17	13.6	12.9	9.1	1907 Juni 5.5	1910.0	285 16 53.7	181 45 9.7
634 [1907 *ZN*] .	März 4	14.0	13.1	9.1	1907 Juni 5.5	1910.0	273 47 51.4	216 6 7.6
635 [1907 *ZS*] .	Febr. 21	12.8	12.6	8.5	1907 Juni 12.5	1910.0	227 8 54.1	214 50 24.0
636 [1907 *XP*] .	—	—	12.4	8.7	1907 März 2.5	1907.0	171 51 57.8	294 7 53.9
637 [1907 *YE*] .	Dez. 39	13.6	14.0	9.8	1907 April 9.5	1908.0	8 19 36.0	172 25 44.1
638 [1907 *ZQ*] .	Febr. 28	13.1	13.5	10.1	1907 Mai 20.5	1908.0	3 29 54.8	125 45 12.0
639 [1907 *ZT*] .	April 9	12.5	12.1	8.2	1907 Juli 31.5	1907.0	338 0 32.2	56 25 58.3
640 [1907 *ZW*] .	April 2	12.8	13.0	8.8	1907 Okt. 22.5	1907.0	81 31 30.9	24 47 52.8

☊	i	φ	μ	Log. a	Autorität
170° 30′ 11.6″	16° 2′ 55.2″	6° 23′ 41.5″	640.″8147	0.4955162	Svoboda.
333 10 21.1	15 54 49.5	16 16 0.1	650.9343	0.490980	Varnum.
343 40 3.7	8 7 47.4	8 28 45.5	869.24105	0.407243	Zimmer.
12 28 55.2	4 40 7.2	14 12 14.1	627.395	0.501643	Barton.
343 21 36.0	19 40 12.9	7 45 29.6	679.007	0.478756	R. Coniel.
319 2 3.6	8 39 46.5	12 29 1.0	853.184	0.412642	P. V. Neugebauer.
286 5 16.5	10 4 37.8	4 32 56.8	737.698	0.454752	P. V. Neugebauer.
295 1 36.8	9 23 5.6	6 42 29.1	675.233	0.480369	P. V. Neugebauer.
166 26 48.0	4 9 12.5	1 54 54.8	654.955	0.489196	P. V. Neugebauer.
21 8 56.5	12 49 15.5	14 21 25.7	658.573	0.487602	P. V. Neugebauer.
190 21 36.3	13 18 9.4	7 48 13.9	686.547	0.475558	Hammond.
25 8 49.0	20 34 1.4	15 33 35.2	633.186	0.498984	R. Coniel.
355 47 15.7	7 44 34.2	3 9 6.9	712.025	0.465008	P. V. Neugebauer.
217 34 5.6	7 12 58.7	5 27 29.8	801.678	0.430672	P. V. Neugebauer.
14 0 14.0	2 46 28.3	6 12 12.3	831.720	0.420020	P. V. Neugebauer.
356 6 10.9	15 0 22.4	3 40 57.9	868.924	0.407350	P. V. Neugebauer.
43 28 35.9	22 3 15.1	8 14 37.9	300.532	0.714644	Heinrich.
111 30 24.9	17 1 46.8	3 27 5.4	622.091	0.504102	P. V. Neugebauer.
187 39 15.4	13 38 56.9	4 18 7.3	886.616	0.401514	P. V. Neugebauer.
0 18 18.3	7 46 1.1	7 44 31.4	931.23617	0.387298	Stouffer.
67 46 12.3	2 22 7.5	8 44 20.0	646.397	0.493006	P. V. Neugebauer.
142 24 53.6	8 38 44.5	14 8 38.8	944.890	0.383084	Hammond.
308 29 59.6	14 11 32.6	6 35 32.0	918.318	0.391343	Kritzinger.
342 0 56.6	18 7 18.3	2 8 23.6	292.584	0.722504	Strömgren.
127 50 8.5	12 11 42.0	13 20 54.2	828.707	0.421070	P. V. Neugebauer.
341 37 38.6	25 25 19.5	13 52 38.1	859.674	0.410448	P. V. Neugebauer.
142 51 33.8	6 24 23.7	3 20 20.4	708.465	0.466460	P. V. Neugebauer.
112 9 31.8	11 32 38.8	2 36 13.1	860.566	0.410150	P. V. Neugebauer.
88 10 36.6	9 22 49.4	9 42 19.8	636.547	0.497450	P. V. Neugebauer.
105 16 41.7	13 50 34.2	6 35 43.3	825.166	0.422310	P. V. Neugebauer.
225 3 1.6	18 50 0.0	4 36 8.2	761.090	0.445713	P. V. Neugebauer.
358 7 33.5	2 15 26.1	11 11 27.9	816.080	0.425516	P. V. Neugebauer.
147 54 45.4	10 53 4.1	5 53 13.8	672.022	0.481750	P. V. Neugebauer.
134 16 37.2	12 19 26.7	10 49 5.5	666.037	0.484340	P. V. Neugebauer.
184 20 14.5	11 1 17.2	4 46 31.6	637.791	0.496886	P. V. Neugebauer.
35 24 23.5	7 56 27.7	9 57 10.5	714.6833	0.463929	Hall.
357 34 2.6	0 20 7.2	7 22 8.8	625.5773	0.502484	Snow.
103 38 18.3	7 41 31.6	9 19 44.3	784.6983	0.436869	Snow.
281 26 7.9	8 36 14.0	5 43 14.7	681.063	0.477880	P. V. Neugebauer.
235 58 21.3	13 20 41.9	4 27 25.9	631.6072	0.499707	Kobold.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
641 [1907 *ZX*] .	—	—	14.5	12.3	1907 Okt. 13.5	1907.0	316° 4′ 12.8″	16° 14′ 28.8″
642 [1907 *ZY*] .	Juni 5	13.9	13.5	9.3	1907 Okt. 13.5	1907.0	249 13 36.1	114 18 7.8
643 [1907 *ZZ*] .	Mai 10	14.2	13.9	9.4	1907 Sept. 12.5	1907.0	279 19 21.7	194 48 52.3
644 [1907 *AA*] .	Sept. 30	12.1	13.1	10.0	1907 Nov. 6.5	1907.0	22 28 46.4	263 37 32.2
645 [1907 *AG*] .	Juni 1	14.2	13.5	9.3	1907 Sept. 29.5	1907.0	284 39 33.0	89 8 41.6
646 [1907 *AC*] .	Dez. 20	14.8	14.5	12.1	1907 Sept. 18.5	1907.0	13 16 3.9	35 25 9.3
647 [1907 *AD*] .	Okt. 31	12.4	13.5	10.8	1907 Sept. 16.5	1907.0	311 18 23.4	173 15 10.9
648 [1907 *AE*] .	Juni 24	14.1	13.1	8.9	1907 Sept. 16.5	1907.0	285 3 26.1	170 6 17.3
649 [1907 *AF*] .	Sept. 7	13.0	15.1	12.1	1907 Sept. 11.5	1907.0	7 4 30.0	346 49 8.9
650 [1907 *AM*] .	Dez. 12	13.8	14.7	11.9	1907 Okt. 4.5	1907.0	3 3 39.3	176 4 27.1
651 [1907 *AN*] .	Juli 8	13.6	13.5	9.6	1907 Okt. 4.5	1907.0	9 56 25.8	349 23 52.7
652 Jubilatrix .	Nov. 16	12.8	13.3	10.3	1907 Nov. 4.5	1907.0	43 0 32.1	274 33 0.7
653 [1907 *BK*] .	Aug. 24	13.1	12.9	9.0	1907 Dez. 21.5	1909.0	250 49 12.4	49 0 19.2
654 Zelinda . . .	—	—	11.1	8.7	1910 Nov. 8.5	1910.0	280 12 5.9	212 21 13.6
655 [1907 *BF*] .	Juli 13	12.7	12.6	8.7	1907 Dez. 11.5	1909.0	359 29 49.3	279 15 13.5
656 [1908 *BU*] .	Sept. 14	14.2	13.6	9.5	1908 Jan. 25.5	1908.0	334 23 21.2	321 33 2.4
657 [1908 *BV*] .	Dez. 23	13.6	13.7	10.6	1908 Jan. 28.5	1908.0	311 49 19.6	239 11 47.2
658 [1908 *BW*] .	Okt. 19	13.4	13.6	10.0	1908 Febr. 9.5	1908.0	57 58 54.4	65 6 46.0
659 Nestor	Juli 19	13.8	14.4	7.7	1908 März 23.5	1908.0	240 38 5.1	327 31 27.6
660 [1908 *CC*] .	Dez. 47	11.1	10.6	7.6	1908 Jan. 12.5	1908.0	221 57 35.9	107 23 10.3
661 [1908 *CL*] .	Okt. 31	12.7	12.7	8.8	1908 Febr. 26.5	1908.0	20 26 7.8	154 47 9.0
662 Newtonia . .	Jan. 16	14.4	13.3	10.3	1908 April 26.5	1910.0	298 9 14.7	163 20 1.9
663 [1908 *DG*] .	—	—	13.0	9.0	1908 Juni 27.5	1908.0	78 4 18.6	308 37 6.3
664 [1908 *DH*] .	—	—	14.2	10.0	1908 Juni 27.5	1908.0	6 21 50.5	90 4 28.3
665 [1908 *DK*] .	—	—	12.8	8.7	1908 Juli 27.5	1908.0	40 38 57.9	314 27 8.2
666 [1908 *DM*] .	April 24	14.7	13.6	10.5	1908 Juli 27.5	1908.0	314 31 43.3	171 2 1.5
667 [1908 *DN*] .	Febr. 10	12.7	13.4	9.2	1908 Aug. 24.5	1908.0	236 16 13.3	304 30 8.7
668 [1908 *DO*] .	Febr. 18	16.1	15.0	11.5	1908 Aug. 21.5	1908.0	358 3 9.6	108 22 10.7
669 [1908 *DQ*] .	Jan. 22	14.2	13.7	9.8	1908 Aug. 27.5	1908.0	53 59 9.5	99 54 9.0
670 [1908 *DR*] .	März 26	14.4	13.4	9.9	1908 Nov. 15.0	1908.0	356 26 39.5	191 28 40.9
671 Carnegia . .	März 26	13.2	13.1	9.0	1908 Sept. 28.5	1908.0	289 12 29.5	82 2 50.6
672 [1908 *DY*] .	April 2	13.3	13.3	10.3	1908 Sept. 24.5	1908.0	54 53 25.9	308 21 8.9
673 [1908 *EA*] .	April 6	13.0	13.0	9.4	1908 Sept. 24.5	1908.0	265 57 47.1	228 16 8.8
674 Rachel . . .	Mai 28	11.5	10.7	7.0	1910 März 3.5	1910.0	47 47 16.8	39 1 38.7
675 [1908 *DU*] .	April 29	12.2	11.2	7.8	1908 Sept. 1.5	1908.0	315 3 23.6	148 16 2.4
676 [1909 *FN*] .	Aug. 14	11.8	12.5	8.5	1909 Jan. 27.5	1909.0	182 57 15.1	178 45 0.1
677 [1909 *FR*] .	Juli 24	12.9	12.9	9.2	1909 Febr. 13.5	1909.0	297 27 32.4	270 18 9.4
678 [1909 *FS*] .	Juli 16	12.6	12.5	9.4	1909 April 10.5	1909.0	77 53 45.8	120 0 50.2
679 Pax	Juli 5	10.4	10.9	7.8	1909 März 9.5	1910.0	100 19 3.7	264 45 23.3
680 [1909 *GW*] .	Nov. 12	13.8	13.2	8.9	1909 Mai 17.5	1909.0	306 45 38.9	237 50 12.3

Ω	i	φ	μ	Log. a	Autorität
40° 38′ 27.0″	1° 43′ 47.5″	7° 15′ 52.8″	1072.″478	0.346412	P. V. Neugebauer.
7 21 52.5	8 12 23.4	8 2 31.3	627.201	0.501734	P. V. Neugebauer.
255 22 17.4	13 47 35.6	4 26 16.1	577.5812	0.525596	G. Struve.
108 52 41.9	1 2 20.0	9 18 25.2	841.850	0.416514	Palisa.
0 47 29.7	7 4 16.1	8 56 0.6	620.253	0.504958	Frederickson.
302 54 6.3	6 56 23.4	12 16 10.0	1000.933	0.366401	P. V. Neugebauer.
254 44 6.5	7 18 38.0	11 11 53.9	929.838	0.387734	P. V. Neugebauer.
292 41 59.2	9 59 11.4	12 44 41.0	624.825	0.502832	P. V. Neugebauer.
357 12 59.5	12 46 42.7	16 16 15.1	869.564	0.407136	P. V. Neugebauer.
215 40 20.4	2 33 31.8	10 46 12.3	918.478	0.391292	P. V. Neugebauer.
38 49 59.8	10 45 10.0	5 23 25.2	674.638	0.480624	P. V. Neugebauer.
86 15 29.2	15 43 11.0	7 14 9.8	869.682	0.407097	Hopfner.
133 47 9.9	11 16 46.7	2 46 34.1	679.1475	0.478695	Snow.
278 15 31.2	18 19 28.9	13 15 34.2	1019.2974	0.361137	Millosevich.
130 36 38.9	6 29 29.5	4 51 28.0	686.4657	0.475592	Lamson.
186 15 21.0	0 26 32.3	7 36 45.5	638.477	0.496574	P. V. Neugebauer.
298 13 21.1	10 16 48.2	6 15 55.4	843.374	0.415991	P. V. Neugebauer.
352 11 10.1	1 32 13.5	3 18 45.4	732.015	0.456992	P. V. Neugebauer.
349 57 41.7	4 31 14.7	6 23 59.1	300.785	0.714500	Ebell.
156 37 21.5	15 14 23.6	5 52 48.2	877.992	0.404344	Frederickson.
336 48 24.2	9 20 55.0	2 22 32.7	678.143	0.479124	Stracke.
133 30 23.2	4 6 8.0	12 43 4.0	870.112	0.406954	Daniel.
233 46 58.4	17 45 16.5	8 42 58.5	659.479	0.487204	P. V. Neugebauer.
175 51 38.6	8 31 5.8	14 2 19.2	628.749	0.501020	P. V. Neugebauer.
299 49 27.4	14 38 7.4	9 49 56.3	634.836	0.498231	P. V. Neugebauer.
215 34 41.9	7 34 9.7	13 56 19.3	850.116	0.413686	P. V. Neugebauer.
153 54 14.8	25 16 0.5	9 49 23.3	618.029	0.505998	P. V. Neugebauer.
216 2 50.2	6 48 13.0	13 20 26.6	759.640	0.446266	P. V. Neugebauer.
171 20 12.8	10 54 45.5	6 5 53.4	676.435	0.479854	P. V. Neugebauer.
175 10 26.8	7 32 37.2	11 16 55.6	756.0233	0.447648	Hellerich.
1 40 8.7	7 52 45.8	4 55 25.3	642.815	0.494614	Stracke.
344 2 11.5	11 0 17.5	7 28 2.9	871.386	0.406530	P. V. Neugebauer.
228 9 40.5	2 49 46.9	0 37 43.5	750.907	0.449614	Stracke.
58 54 7.2	13 35 36.6	10 57 10.3	708.1886	0.466572	Bianchi.
263 53 11.9	9 43 10.0	11 41 4.4	769.260	0.442622	Stracke.
151 2 6.1	12 47 37.0	6 52 59.0	659.867	0.487034	P. V. Neugebauer.
274 26 12.7	8 35 13.8	0 36 4.0	723.006	0.460578	G. Struve.
281 59 4.6	6 0 13.0	11 24 59.3	854.272	0.412274	Hellerich.
112 53 46.9	24 25 19.4	18 9 19.2	850.9616	0.413398	Zappa.
40 53 16.7	18 1 16.3	16 9 54.1	624.125	0.503154	Stracke.

Nr. und Name	Opposition 1911	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
681 [1909 *GZ*] .	Nov. 21	14.5	14.3	10.2	1909 Mai 17.5	1909.0	307° 53′ 36.9″	116° 2′ 59.7″
682 [1909 *HA*] .	—	—	14.8	11.4	1909 Juni 20.5	1909.0	344 6 13.2	99 29 52.4
683 [1909 *HC*] .	Dez. 25	12.3	12.4	8.3	1909 Juli 27.5	1909.0	131 33 13.3	269 8 22.6
684 [1909 *HD*] .	—	—	13.5	10.8	1909 Aug. 25.5	1909.0	25 44 45.9	315 29 13.3
685 [1909 *HE*] .	Jan. 23	14.5	13.5	11.2	1909 Aug. 16.5	1909.0	10 1 32.1	78 33 44.9
686 [1909 *HF*] .	Jan. 8	14.6	13.9	10.6	1909 Aug. 15.0	1910.0	356 24 20.4	85 29 53.0
687 Tinette . . .	Febr. 16	15.2	14.8	11.4	1909 Aug. 16.5	1909.0	332 26 41.2	49 30 4.5
688 Melanie . . .	Jan. 0	13.9	13.5	10.0	1909 Aug. 26.5	1909.0	26 57 24.7	137 55 28.0
689 [1909 *HJ*] .	Febr. 23	15.3	14.2	11.8	1909 Sept. 12.5	1909.0	1 9 16.5	186 44 23.7
690 [1909 *HZ*] .	Jan. 21	12.2	11.8	7.7	1909 Okt. 25.5	1909.0	18 2 40.0	110 23 50.8
691 Lehigh . . .	März 21	13.4	12.8	8.9	1909 Dez. 31.0	1910.0	57 52 8.8	296 0 1.9
[1894 *BD*] .	—	—	13.3	11.3	1894 Nov. 1.5	1900.0	337 18 8.4	356 39 18.9
[1901 *HD*] .	—	—	—	—	1910 April 30.5	1910.0	77 42 42	112 5 6
[1902 *JT*] .	—	—	—	—	1902 Okt. 23.5	1902.0	33 40 54.1	245 30 35.0
[1904 *OR*] .	—	—	—	—	1904 Okt. 3.5	1904.0	357 7 3.9	60 22 31.4
[1906 *UT*] .	—	—	12.3	8.5	1906 Aug. 29.5	1906.0	246 19 17.1	279 19 40.4
[1906 *WA*] .	—	—	13.6	9.5	1906 Okt. 25.5	1906.0	335 44 25.8	235 55 34.2
[1908 *CV*] .	—	—	—	—	1908 Febr. 9.0	1908.0	318 39 29	78 8 18
[1908 *DC*] .	—	—	—	—	1908 April 26.5	1908.0	22 46 15	345 36 5
[1908 *DW*] .	—	—	—	—	1908 Sept. 21.5	1908.0	19 30 32.5	129 26 55.2
[1909 *HN*] .	—	—	—	—	1909 Sept. 26.5	1909.0	84 9 9.2	285 20 24.6

☊	i	φ	μ	Log. a	Autorität
179° 2′ 24.″7	12° 34′ 11.″0	4° 46′ 49.″3	648.″157	0.492218	Stracke.
191 37 25.1	11 28 24.3	9 42 1.0	826.032	0.422006	Stracke.
260 37 20.6	18 29 56.6	2 45 18.5	643.696	0.494218	P. V. Neugebauer.
336 42 54.2	5 29 21.7	1 43 47.9	929.525	0.387831	Stracke.
235 21 32.3	3 38 20.5	11 19 5.6	1061.169	0.349474	Stracke.
244 5 14.7	15 43 11.2	15 27 45.3	852.865	0.412751	Pechüle.
335 11 12.7	15 5 18.2	15 41 12.5	787.428	0.435864	P. V. Neugebauer.
171 12 55.0	10 8 29.3	7 57 50.0	803.148	0.430141	Stracke.
167 50 10.9	5 42 0.6	13 18 21.0	1011.533	0.363352	P. V. Neugebauer.
254 46 9.6	11 11 46.5	10 44 44.4	637.567	0.496988	P. V. Neugebauer.
88 54 34.6	13 1 36.5	7 16 10.8	678.253	0.479076	Reynolds.
72 35 44.3	3 27 48.4	8 33 50.4	1104.735	0.337832	Berberich.
65 4 48	26 32 48	9 18 12	571.903	0.52846	Kromm und Dubosq.
80 11 55.9	2 28 7.5	11 54 31.0	637.160	0.497172	Berberich.
301 18 11.1	5 28 38.8	9 4 57.1	642.729	0.494652	Berberich.
180 59 31.4	23 18 33.6	2 59 20.8	691.888	0.473314	Kritzinger.
193 50 5.4	9 15 15.4	8 51 34.8	649.218	0.491744	P. V. Neugebauer.
131 54 59	13 42 15	17 46 19	620.44	0.50487	Hirayama.
209 11 4	19 56 6	6 52 25	612.32	0.50869	Burns, Mc. Kellean.
178 11 33.9	6 17 23.5	27 13 22.8	818.534	0.42464	Palisa.
352 47 2.4	14 29 0.7	4 44 33.6	702.897	0.468744	P. V. Neugebauer.

Planet	m_0	Epoche	Argument der Breite	☊	i	μ	Log. a
1892 *S* . .	13.0	1892 Dez. 17.5	77° 35′ 50″	358° 7′ 42″	3° 27′ 18″	835.″80	0.41860
1893 *C* . .	13.5	1893 Jan. 23.5	167 48 0	321 27 42	3 33 48	1182.9	0.31804
1893 *U* . .	13.0	1893 April 10.5	93 23 42	88 59 54	7 49 6	944.3	0.38330
1893 *X* . .	13	1893 März 21.5	112 50 17	72 17 48	1 34 4	423.40	0.61550
1893 *Y* . .	13	1893 April 17.5	79 39 46	124 24 8	0 18 4	549.95	0.53980
1894 *AW* .	12	1894 Febr. 3.5	62 6 12	21 39 36	4 33 42	996.0	0.36781
1896 *CU* .	12.0	1896 Sept. 3.5	100 46 25	243 53 26	5 51 46	692.17	0.47320
1898 *DW* .	13.5	1898 Nov. 19.5	181 1 17	229 11 55	14 40 58	841.15	0.41675
1898 *DX* .	—	1898 Nov. 19.5	182 5 12	227 3 49	22 26 34	589.39	0.51973
1898 *DY* .	13.5	1898 Nov. 13.5	198 18 19	216 46 18	3 15 55	673.12	0.48128
1898 *DZ* .	12.5	1898 Nov. 17.5	174 26 37	239 40 46	3 53 1	881.73	0.40312
1898 *EA* .	13	1898 Nov. 13.5	181 15 2	227 33 5	27 23 43	508.71	0.56236
1900 *FE* .	12.5	1900 März 6.5	33 49 36	129 37 12	13 13 24	882.1	0.40300
1900 *FL* .	14.0	1900 Sept. 28.5	152 4 21	197 51 1	6 39 4	768.78	0.44280
1901 *HC* .	—	1901 Nov. 12.5	202 51 49	193 51 50	16 21 55	701.06	0.46950
1901 *HD* .	—	1901 Nov. 15.5	339 15 43	62 43 50	29 31 43	592.93	0.51800
1902 *HY* .	—	1902 Juni 2.5	164 42 33	68 13 39	9 0 13	656.86	0.48836
1903 *LD* .	—	1903 Jan. 18.5	181 6 10	300 36 51	15 33 1	754.21	0.44834
1903 *LX*ᵃ	—	1903 Sept. 1.5	38 57 42	287 19 24	7 21 12	709.92	0.46587
1903 *LZ* .	—	1903 Aug. 30.5	153 22 42	189 17 0	9 22 0	759.30	0.44640
1903 *MC* .	—	1903 Sept. 29.5	185 33 38	167 13 30	26 16 59	564.44	0.53225
1903 *MD* .	—	1903 Sept. 29.5	358 34 29	354 45 52	14 35 22	654.46	0.48942
1903 *MF* .	—	1903 Sept. 29.5	183 25 53	171 9 13	10 55 45	783.09	0.43746
1903 *MM* .	—	1903 Okt. 14.5	181 15 12	195 37 36	4 56 48	714.71	0.46392
1903 *MN* .	—	1903 Okt. 24.5	350 9 6	39 35 0	7 51 54	945.90	0.38276
1903 *NF* .	—	1903 Dez. 18.5	216 0 54	230 11 48	15 16 54	849.85	0.41380
1903 *NG* .	—	1903 Nov. 14.5	178 3 42	230 52 18	8 38 12	649.73	0.49152
1904 *OD* .	—	1904 Mai 14.5	186 3 33	42 38 38	12 53 11	610.50	0.50954
1904 *OP* .	—	1904 Sept. 5.5	45 37 34	293 4 6	13 37 4	735.20	0.45572
1904 *QW* .	—	1904 April 4.5	70 11 57	108 54 13	11 14 22	716.53	0.46318
1905 *RN* .	—	1905 Okt. 24.5	63 34 0	336 9 12	3 12 42	828.93	0.42100
1906 *UK* .	12.9	1906 Mai 14.5	102 21 52	131 2 1	12 20 4	776.69	0.43984
1906 *VW* .	—	1906 Nov. 11.5	190 13 12	207 30 36	9 19 42	799.40	0.43150
1906 *VX* .	—	1906 Nov. 11.5	350 31 6	46 39 30	7 44 30	588.99	0.51994
1906 *WD* .	—	1906 Okt. 26.5	195 49 0	203 7 0	48 8 0	387	0.6595
1907 *XV* .	—	1907 März 12.5	68 19 30	82 27 36	10 52 24	567.56	0.53000
1907 *YR* .	—	1907 April 18.5	85 46 47	97 13 3	6 59 40	470.40	0.58510

Mittleres Äquinoktium des Jahresanfangs.

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
688 Melanie	Jan. 0	13.9	6 14.9	+ 8 50	0.9	+ 2	0.306	1909
256 Walpurga . . .	1	13.5	6 45.3	+ 3 53	0.8	+ 1	0.337	1909
384 Burdigala . . .	2	10.9	6 50.1	+30 50	1.1	+ 3	0.118	1909
439 Ohio	2	12.5	6 51.9	− 5 9	0.8	+ 1	0.305	1909
552 Sigelinde . . .	2	12.4	6 52.2	+20 27	0.9	0	0.368	1909
429 Lotis	3	12.3	6 52.8	+ 8 54	0.7	0	0.185	1909
411 Xanthe	3	13.1	6 53.3	+20 37	0.9	+ 5	0.363	1909
199 Byblis	4	13.2	6 58.1	+27 46	0.9	+ 4	0.431	1907
244 Sita	5	13.7	7 4.2	+17 32	1.2	+ 1	0.065	1900
630 [1907 *XW*] . .	5	13.0	7 4.7	+22 25	1.0	+ 8	0.154	1907
437 Rhodia	6	13.6	7 7.8	+18 11	1.1	0	0.258	1909
419 Aurelia	6	12.3	7 8.0	+17 48	1.0	+ 1	0.349	1909
390 Alma	7	12.5	7 11.9	+29 34	1.2	− 4	0.134	1909
455 Bruchsalia . .	7	11.9	7 13.5	+31 21	1.1	+ 4	0.271	1907
238 Hypatia	7	11.6	7 14.3	+ 3 54	0.9	+ 2	0.273	1907
686 [1909 *HF*] . .	8	14.6	7 15.4	+ 5 39	1.0	− 1	0.314	1909
575 [1905 *RE*] . .	11	14.0	7 26.8	+42 19	1.3	0	0.264	1909
467 Laura	11	13.9	7 26.9	+27 39	1.0	0	0.242	1901
318 Magdalena . .	11	13.0	7 28.3	+ 9 36	0.8	+ 4	0.317	1909
138 Tolosa	11	12.6	7 28.6	+26 2	1.1	+ 3	0.261	1909
196 Philomela . . .	12	10.6	7 30.0	+28 17	0.9	+ 3	0.345	1909
622 [1906 *WP*] . .	12	12.1	7 30.0	+13 35	1.0	+ 7	0.065	1908
322 Phaeo	12	12.4	7 32.7	+14 2	1.0	0	0.265	1909
137 Meliboea . . .	13	12.8	7 35.9	+ 3 24	0.7	+ 2	0.450	1907
59 Elpis	13	10.9	7 36.6	+10 3	0.9	+ 4	0.238	1909
542 Susanna . . .	13	12.9	7 37.4	+ 9 51	0.8	+ 5	0.301	1909
381 Myrrha	13	12.9	7 38.0	+17 44	0.8	+ 4	0.410	1907
19 Fortuna	14	9.6	7 40.0	+18 46	1.1	+ 3	0.130	1909
365 Corduba . . .	14	12.0	7 42.0	+ 2 18	0.9	+ 3	0.237	1909
246 Asporina . . .	14	12.2	7 42.0	+ 3 44	0.9	+ 5	0.290	1908
130 Elektra	15	10.5	7 48.5	+ 3 41	0.8	+ 7	0.316	1904
662 Newtonia . . .	16	14.4	7 51.8	+19 8	1.0	+ 4	0.328	1909
586 [1906 *TC*] . .	20	12.6	8 8.0	+17 52	0.9	+ 2	0.263	1906
402 Chloë	21	10.1	8 11.5	+16 47	0.9	+10	0.115	1909
690 Vratislavia . .	21	12.2	8 13.4	+ 7 45	0.8	+ 1	0.372	1910
522 Helga	22	12.8	8 14.2	+20 6	0.7	+ 3	0.441	1904
334 Chicago	22	12.1	8 14.3	+18 29	0.7	+ 3	0.469	1909
669 [1908 *DQ*] . .	22	14.2	8 16.9	+ 7 52	0.8	+ 5	0.364	1908
685 [1909 *HE*] . .	23	14.5	8 19.2	+14 7	1.1	+ 3	0.226	1909
329 Svea	23	12.2	8 19.5	− 2 4	0.9	+ 7	0.186	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
481 Emita	Jan. 24	11.2	8 26.7	+32 46	1.0	+ 6	0.194	1908
344 Desiderata . .	24	13.0	8 27.1	+44 39	1.2	+ 4	0.383	1909
499 Venusia	25	11.8	8 28.8	+16 47	0.7	+ 3	0.324	1902
41 Daphne	27	10.1	8 36.6	− 1 27	0.9	+ 7	0.216	1907
236 Honoria	27	12.0	8 36.8	+ 8 45	0.8	+ 4	0.323	1907
65 Cybele	28	11.3	8 42.2	+15 44	0.7	+ 4	0.420	1909
602 Marianna . . .	29	12.2	8 43.0	+29 7	1.0	0	0.342	1906
*113 Amalthea . . .	30	10.8	8 51.7	+18 43	1.0	+ 7	0.115	1909
589 Croatia	31	12.8	8 52.3	+ 5 53	0.7	+ 5	0.338	1909
625 [1907 *XN*] . .	31	13.1	8 54.0	+18 27	0.9	+ 6	0.344	1907
272 Antonia	31	13.4	8 56.1	+24 39	1.0	+ 4	0.235	1890
514 Armida	Febr. 1	12.5	8 56.4	+13 20	0.8	+ 3	0.326	1909
333 Badenia	1	13.1	8 58.5	+21 7	0.9	+ 3	0.370	1909
422 Berolina	2	14.3	9 1.9	+23 58	1.2	+ 4	0.211	1908
628 [1907 *XT*] . .	3	12.5	9 3.3	+23 29	1.0	+ 8	0.231	1909
424 Gratia	4	12.5	9 10.5	+24 3	0.9	+ 6	0.213	1908
177 Irma	6	12.7	9 16.1	+17 8	0.9	+ 4	0.280	1906
181 Eucharis . . .	6	10.4	9 19.7	+11 38	0.7	+12	0.196	1906
404 Arsinoë	6	12.6	9 23.0	+32 18	1.0	+10	0.149	1909
173 Ino	7	11.5	9 23.1	+11 28	0.8	+ 8	0.300	1909
631 [1907 *YJ*] . .	7	12.0	9 23.2	−15 40	0.8	+ 4	0.222	1909
234 Barbara	7	12.9	9 24.4	+12 52	0.9	+ 9	0.289	1905
460 Scania	7	14.2	9 24.8	+ 8 30	0.9	+ 5	0.279	1909
269 Justitia	8	13.4	9 25.4	+12 29	0.9	+ 6	0.288	1907
667 [1908 *DN*] . .	10	12.7	9 31.0	+ 5 56	0.7	+13	0.252	1908
39 Laetitia	10	9.6	9 31.9	+10 8	0.8	+ 7	0.301	1909
626 [1907 *XO*] . .	10	11.7	9 33.4	+32 59	1.4	− 2	0.230	1907
125 Liberatrix . . .	15	11.4	9 40.9	+10 45	0.8	+ 6	0.275	1907
363 Padua	15	11.9	9 47.5	+22 42	0.9	+ 5	0.284	1907
687 Tinette	16	15.2	9 59.5	+15 56	1.0	+ 1	0.293	1909
633 [1907 *ZM*] . .	17	13.6	9 59.9	+12 16	0.8	+ 7	0.372	1909
93 Minerva	17	11.3	10 1.9	+20 48	0.9	+ 3	0.299	1908
21 Lutetia	17	11.0	10 3.0	+16 36	1.0	+ 7	0.266	1909
668 [1908 *DO*] . .	18	16.1	10 3.6	+ 2 41	0.8	+ 5	0.389	1908
623 [1907 *XJ*] . .	18	12.6	10 4.2	+ 1 45	1.1	0	0.147	1909
539 Pamina	18	13.9	10 5.5	+ 2 59	0.8	+ 4	0.335	1909
* 68 Leto	18	11.4	10 6.3	+23 37	0.9	+ 4	0.358	1909
464 Megaira	19	13.2	10 8.3	+22 46	0.9	+ 6	0.387	1901
592 [1906 *TS*] . .	20	12.8	10 15.2	+ 6 13	0.8	+ 7	0.305	1909
635 [1907 *ZS*] . .	21	12.8	10 19.4	+ 2 0	0.7	+ 7	0.353	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
219 Thusnelda . .	Febr. 22	12.5	10 20.3	− 2 8	0.9	+ 8	0.279	1908
86 Semele	23	12.8	10 22.5	+16 43	0.8	+ 5	0.376	1909
295 Theresia . . .	23	13.4	10 23.9	+ 6 14	0.9	+ 5	0.245	1909
513 Centesima . .	23	12.5	10 24.4	+ 2 33	0.8	+ 6	0.332	1909
689 [1909 *HJ*] . .	23	15.3	10 25.8	+ 7 41	1.0	+ 7	0.256	1909
70 Panopaea . . .	26	11.7	10 35.0	+26 48	1.0	+ 4	0.308	1909
638 [1907 *ZQ*] . .	28	13.1	10 41.0	+19 9	0.8	+ 7	0.193	1908
399 Persephone . .	28	12.6	10 44.3	+11 22	0.5	+ 1	0.268	1909
229 Adelinda . . .	28	14.2	10 44.5	+10 27	0.7	+ 4	0.463	1908
383 Janina	März 1	13.5	10 46.0	+11 34	0.8	+ 5	0.355	1909
393 Lampetia . . .	2	12.0	10 51.0	−10 8	0.8	+ 7	0.360	1908
* 84 Klio	3	12.6	10 55.1	+ 2 41	1.0	+ 4	0.286	1909
634 [1907 *XN*] . .	4	14.0	10 56.9	+15 0	0.7	+ 7	0.420	1907
595 [1906 *TZ*] . .	4	12.3	10 59.8	+27 23	0.9	+ 3	0.381	1910
477 Italia	5	13.1	11 0.6	+10 27	1.0	+ 3	0.272	1909
314 Rosalia	5	14.9	11 3.2	+ 4 2	0.7	+ 7	0.433	1908
418 Alemannia . .	5	13.1	11 3.6	− 5 8	0.9	+ 6	0.275	1910
389 Industria . . .	5	10.8	11 3.7	− 7 21	0.9	+ 3	0.165	1909
555 Norma	6	13.2	11 6.5	+ 8 12	0.7	+ 6	0.256	1909
50 Virginia . . .	8	12.9	11 10.2	+ 4 48	0.8	+ 6	0.363	1909
590 [1906 *TO*] . .	8	13.1	11 11.4	+20 20	0.8	+ 7	0.301	1906
307 Nike	9	13.2	11 16.4	+13 42	0.8	+ 6	0.292	1906
632 [1907 *YX*] . .	9	14.1	11 17.5	+ 5 16	0.9	+ 5	0.168	1907
299 Thora	10	14.7	11 19.3	+ 1 41	0.9	+ 6	0.190	1903
85 Io	10	11.8	11 21.0	− 5 57	0.8	+ 8	0.323	1907
617 Patroclus . . .	11	13.3	11 24.2	+29 31	0.5	+ 2	0.699	1910
596 [1906 *UA*] . .	12	11.7	11 25.8	+28 10	0.9	+ 5	0.263	1909
446 Aeternitas . .	12	12.0	11 27.0	+17 38	1.0	+ 3	0.325	1907
551 Ortrud	12	12.9	11 28.0	+ 3 40	0.8	+ 5	0.299	1909
96 Aegle	13	10.7	11 30.0	−12 12	1.0	0	0.227	1903
359 Georgia	13	13.1	11 32.8	+ 5 45	0.9	+ 4	0.333	1906
382 Dodona	13	11.4	11 33.3	− 5 9	0.8	+ 4	0.234	1910
183 Istria	14	13.1	11 34.1	+21 34	0.9	+10	0.324	1906
544 Jetta	14	12.6	11 34.6	− 9 32	1.0	+ 3	0.212	1908
208 Lacrimosa . .	14	12.1	11 35.6	+ 3 23	0.8	+ 5	0.273	1909
74 Galatea	14	12.9	11 36.4	+ 0 4	0.8	+ 5	0.383	1910
55 Pandora . . .	17	11.5	11 45.4	+ 4 48	0.9	+ 3	0.331	1910
169 Zelia	17	11.9	11 45.5	+ 1 22	1.0	+ 6	0.210	1907
88 Thisbe	17	11.3	11 47.5	− 7 4	0.8	+ 5	0.306	1908
30 Urania	17	10.5	11 47.8	− 1 28	0.9	+ 6	0.205	1909

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	Δα	Δδ	Log. Δ	
			h m	° ′	m	′		
29 Amphitrite . .	März 19	9.3	11 53.8	+ 0 35	1.1	+5	0.217	1910
189 Phthia	19	11.8	11 53.9	− 3 6	0.9	+8	0.189	1908
510 Mabella	20	13.1	11 57.7	− 6 7	0.8	+8	0.233	1908
11 Parthenope . .	20	9.6	12 0.0	+ 6 29	0.9	+5	0.209	1909
316 Goberta	21	13.4	12 0.6	+ 2 54	0.7	+5	0.352	1891
691 Lehigh	21	13.4	12 1.2	+19 58	0.8	+5	0.375	1910
492 Gismonda . . .	21	13.8	12 2.5	+ 1 34	0.7	+5	0.415	1904
490 Veritas	22	12.7	12 3.3	+ 0 3	0.7	+7	0.391	1910
336 Lacadiera . . .	23	11.7	12 10.0	− 9 47	0.9	+8	0.080	1906
547 Praxedis . . .	26	13.7	12 15.6	− 5 23	0.7	+9	0.373	1908
171 Ophelia	26	11.6	12 15.8	+ 2 33	0.8	+5	0.262	1906
671 Carnegia . . .	26	13.2	12 16.8	− 2 33	0.8	+3	0.333	1908
670 [1908 *DR*] . .	26	14.4	12 19.7	− 0 11	0.7	+6	0.371	1910
491 Carina	26	12.8	12 20.5	+ 2 8	0.7	+9	0.373	1908
283 Emma	27	12.5	12 20.5	−13 9	0.8	+4	0.399	1908
275 Sapientia . . .	27	11.0	12 24.5	+ 4 16	1.0	+6	0.129	1909
431 Nephele	28	13.2	12 25.1	− 0 8	0.7	+5	0.401	1910
*153 Hilda	28	12.6	12 28.0	−10 16	0.6	+5	0.463	1910
* 79 Eurynome . .	30	11.3	12 33.8	− 5 55	0.9	+7	0.253	1909
258 Tyche	30	12.1	12 35.7	−10 27	0.7	+8	0.332	1908
339 Dorothea . . .	31	13.1	12 36.1	+ 0 1	0.7	+7	0.350	1907
152 Atala	31	12.3	12 36.9	+ 7 3	0.8	+2	0.340	1905
427 Galene	31	13.0	12 37.3	−11 57	0.8	+4	0.317	1908
38 Leda	April 1	11.3	12 40.2	−16 4	0.9	+5	0.230	1906
294 Felicia	1	14.9	12 41.4	+ 3 5	0.8	+6	0.393	1910
405 Thia	2	9.4	12 43.2	−27 16	0.7	+8	9.987	1909
109 Felicitas . . .	2	12.8	12 44.4	− 6 34	0.9	+3	0.327	1907
640 [1907 *ZW*] . .	2	12.8	12 44.9	−18 50	0.7	+8	0.315	1907
672 [1908 *DY*] . .	2	13.3	12 45.0	−14 53	1.0	+2	0.195	1908
297 Caecilia	3	13.6	12 47.2	−12 50	0.8	+3	0.376	1907
92 Undina	3	11.3	12 47.8	+10 5	0.7	+4	0.382	1908
237 Coelestina . . .	5	12.8	12 54.9	+10 1	0.8	+4	0.250	1901
673 [1908 *EA*] . .	6	13.0	12 57.6	− 8 40	0.8	+6	0.260	1910
103 Hera	6	10.5	12 59.5	+ 1 20	0.8	+6	0.262	1908
127 Johanna . . .	6	10.4	13 0.1	− 2 18	0.9	+3	0.228	1909
3 Juno	8	9.5	13 6.1	+ 1 48	0.8	+8	0.326	1909
158 Koronis	9	12.6	13 8.7	+ 8 55	0.8	+5	0.298	1908
571 [1905 *QZ*] . .	9	15.0	13 10.0	− 9 47	1.0	+4	0.286	1905
639 [1907 *ZT*] . .	9	12.5	13 10.5	+20 44	0.8	+5	0.346	1910
279 Thule	10	13.9	13 13.8	− 5 2	0.6	+3	0.525	1906

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	Δα	Δδ	Log. Δ	
			h m	° '	m	'		
302 Clarissa	April 13	14.3	13 23.3	−10 21	1.0	+ 4	0.205	1907
105 Artemis	15	10.1	13 29.2	− 2 15	0.7	+20	0.014	1908
271 Penthesilea . .	15	13.3	13 30.3	−13 34	0.6	+ 3	0.364	1903
300 Geraldina . . .	16	12.6	13 33.9	− 9 27	0.7	+ 4	0.356	1906
128 Nemesis	17	11.3	13 40.2	− 2 36	0.8	+ 3	0.321	1908
33 Polyhymnia . .	17	12.7	13 40.3	−11 20	0.8	+ 4	0.371	1904
317 Roxane	19	12.4	13 45.3	− 8 10	1.0	+ 6	0.144	1908
525 Adelaide . . .	19	15.2	13 45.4	− 6 27	0.7	+ 4	0.534	1904
520 Franziska . . .	19	14.4	13 46.1	+ 8 53	0.8	+ 2	0.359	1906
243 Ida	19	13.5	13 47.5	−12 46	0.8	+ 4	0.291	1906
252 Clementina . .	20	13.3	13 52.5	− 9 48	0.7	+ 6	0.368	1902
459 Signe	21	14.7	13 52.5	−11 49	0.9	+ 1	0.332	1900
106 Dione	21	12.2	13 54.1	− 7 59	0.8	+ 4	0.430	1910
394 Arduina . . .	21	13.5	13 55.2	− 5 29	0.9	+ 4	0.304	1906
168 Sibylla	21	12.0	13 56.1	−11 41	0.7	+ 5	0.419	1908
598 [1906 *UC*] . .	22	13.1	13 56.5	+ 4 45	0.8	+ 4	0.390	1910
87 Sylvia	22	12.2	13 56.5	− 0 17	0.7	+ 2	0.432	1907
561 Ingwelde . . .	22	14.0	13 57.6	−10 12	0.8	+ 5	0.354	1905
8 Flora	22	9.8	13 57.8	− 1 50	1.0	+ 5	0.194	1909
666 [1908 *DM*] . .	24	14.7	14 4.5	−13 3	0.8	+ 6	0.343	1908
350 Ornamenta . .	24	13.3	14 5.2	+20 55	0.8	0	0.410	1910
110 Lydia	25	10.7	14 9.2	− 9 7	0.9	+ 3	0.265	1908
550 Senta	26	11.7	14 12.2	−27 30	1.0	+ 6	0.186	1910
*122 Gerda	26	11.2	14 13.4	−11 54	0.7	+ 4	0.312	1910
434 Hungaria . . .	27	10.9	14 16.8	+16 18	0.9	+16	9.992	1909
485 Genua	27	11.6	14 17.5	− 5 48	0.7	+ 8	0.269	1909
282 Clorinde . . .	27	13.6	14 19.2	+ 1 6	0.9	+ 6	0.170	1908
675 [1908 *DU*] . .	29	12.2	14 23.0	−24 23	0.8	+ 6	0.365	1908
250 Bettina	30	11.8	14 26.3	−19 25	0.9	+ 1	0.372	1910
341 California . . .	30	13.1	14 27.3	−16 37	1.2	+ 2	0.075	1905
332 Siri	30	12.6	14 28.2	−15 19	0.9	+ 3	0.258	1906
280 Philia	Mai 2	14.7	14 36.9	−21 24	0.9	+ 2	0.328	1890
519 Sylvania . . .	3	12.4	14 38.8	−14 26	0.9	+ 1	0.297	1903
191 Kolga	4	12.5	14 43.4	− 0 29	0.8	+ 5	0.337	1907
120 Lachesis . . .	4	11.4	14 43.5	−25 49	0.9	+ 2	0.285	1908
228 Agathe	5	14.5	14 46.3	−20 59	1.1	+ 5	0.080	1908
584 [1906 *SY*] . .	5	12.3	14 47.4	−30 53	1.1	+ 5	0.247	1906
572 [1905 *RB*] . .	5	13.8	14 49.3	− 8 46	0.9	+ 8	0.232	1905
141 Lumen	6	12.3	14 52.1	−34 59	1.1	+ 3	0.324	1901
421 Zähringia . . .	7	15.5	14 55.9	− 9 36	0.9	+ 5	0.352	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
415 Palatia	Mai 7	12.9	14 58.0	− 5 13	0.8	+ 3	0.409	1910
54 Alexandra . .	8	10.3	14 58.1	−37 44	1.1	+ 3	0.156	1909
324 Bamberga . . .	8	10.8	15 1.0	−34 6	1.0	+ 3	0.343	1909
347 Pariana	9	11.3	15 3.7	− 3 35	1.0	0	0.129	1907
643 [1907 *ZZ*] . . .	10	14.2	15 4.9	−25 57	0.8	+ 5	0.405	1908
186 Celuta	10	11.4	15 8.1	−32 8	1.2	− 2	0.131	1908
117 Lomia	11	11.5	15 12.4	−38 41	1.0	+ 1	0.323	1907
528 Rezia	12	12.4	15 12.7	−17 32	0.8	0	0.389	1910
391 Ingeborg . . .	13	13.8	15 16.8	− 6 2	1.0	+13	0.198	1908
179 Klytaemnestra	13	11.8	15 17.6	−22 29	0.8	+ 5	0.324	1908
601 [1906 *UN*] . .	14	12.6	15 20.1	+ 2 33	0.7	+ 5	0.327	1909
502 Sigune	16	13.6	15 27.9	+25 29	1.0	− 2	0.141	1907
242 Kriemhild . . .	16	12.8	15 29.8	−11 20	0.8	+ 6	0.289	1906
593 [1906 *TT*] . .	16	12.9	15 32.2	− 8 37	1.0	− 1	0.295	1909
327 Columbia . . .	20	12.7	15 45.8	−30 31	1.0	+ 1	0.222	1903
151 Abundantia . .	20	11.8	15 46.2	−23 45	1.0	0	0.188	1904
231 Vindobona . .	20	11.4	15 46.6	−28 5	0.7	+ 2	0.169	1902
566 Stereoskopia .	21	12.0	15 47.7	−17 14	0.8	+ 2	0.425	1910
104 Klymene . . .	21	12.9	15 48.6	−21 11	0.8	+ 2	0.417	1910
379 Huenna	21	12.8	15 48.7	−17 50	0.8	+ 3	0.347	1909
412 Elisabetha . .	21	11.7	15 49.1	− 2 53	1.0	− 1	0.224	1906
414 Liriope	22	13.8	15 49.8	− 9 3	0.8	+ 2	0.453	1910
342 Endymion . .	22	13.3	15 52.4	−18 44	0.9	+ 5	0.258	1907
558 Carmen	22	12.4	15 54.7	− 7 30	0.8	− 3	0.300	1910
112 Iphigenia . . .	24	11.5	16 4.6	−25 20	1.0	+ 3	0.149	1906
582 [1906 *SO*] . .	24	13.5	16 4.9	+23 14	0.9	+ 2	0.330	1910
6 Hebe	25	9.2	16 6.7	+ 2 19	0.9	+ 2	0.244	1910
116 Sirona	25	10.6	16 7.9	−20 52	1.0	+ 1	0.231	1906
289 Nenetta	25	12.9	16 8.2	−12 16	0.9	+ 4	0.326	1909
107 Camilla	26	11.4	16 8.3	− 8 16	0.7	+ 3	0.423	1910
159 Aemilia	27	12.6	16 16.0	−12 56	0.8	+ 2	0.365	1906
301 Bavaria	28	12.3	16 18.3	−13 25	0.9	+ 2	0.191	1903
674 Rachel	28	11.5	16 18.7	−24 11	0.9	− 1	0.373	1910
546 Herodias . . .	28	12.4	16 21.1	−39 6	1.2	0	0.240	1910
574 [1905 *RD*] . .	29	15.2	16 23.7	−31 43	1.2	+ 3	0.220	1905
40 Harmonia . . .	30	9.3	16 24.0	−18 12	1.1	+ 1	0.112	1907
395 Delia	30	12.3	16 28.7	−22 59	0.9	+ 4	0.164	1903
484 Pittsburghia .	Juni 1	12.8	16 36.1	− 4 28	0.9	0	0.207	1907
645 [1907 *AG*] . .	1	14.2	16 37.4	−31 26	0.9	+ 1	0.424	1910
56 Melete	2	10.0	16 39.8	− 9 13	1.1	+ 6	0.046	1907

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
111 Ate	Juni 3	11.7	16h 43.9m	−28° 36′	1.0m	+3′	0.252	1910
81 Terpsichore . .	4	12.7	16 48.2	−33 15	1.0	+1	0.373	1903
642 [1907 *ZY*] . .	5	13.9	16 51.3	−33 20	0.9	+1	0.388	1910
148 Gallia	5	11.8	16 52.5	+12 46	0.8	0	0.358	1910
123 Brunhild . . .	5	12.4	16 52.9	−30 22	1.0	+2	0.305	1905
357 Ninina	6	12.4	16 55.0	− 2 41	0.8	0	0.363	1910
549 Jessonda . . .	8	14.6	17 1.3	−26 2	0.9	+2	0.371	1910
9 Metis	8	9.5	17 2.2	−23 47	1.1	0	0.221	1910
100 Hekate	9	11.1	17 5.3	−14 14	0.8	0	0.228	1910
18 Melpomene . .	9	9.7	17 5.8	− 6 20	1.0	0	0.166	1907
131 Vala	10	11.8	17 8.6	−24 56	1.0	−1	0.107	1908
612 [1906 *VN*] . .	10	13.5	17 11.5	−50 45	1.3	−3	0.213	1906
10 Hygiea	12	8.9	17 19.4	−25 41	0.9	+2	0.249	1910
599 [1906 *UJ*] . .	13	11.2	17 22.6	−40 57	1.3	−7	0.124	1910
278 Paulina	14	12.3	17 27.0	−27 48	1.0	−2	0.186	1908
335 Roberta	14	10.5	17 30.5	−14 10	0.9	0	0.021	1907
15 Eunomia . . .	15	9.0	17 30.5	−32 40	1.1	+3	0.269	1910
185 Eunike	15	10.7	17 32.2	+10 17	0.9	−1	0.288	1910
286 Iclea	16	13.3	17 37.1	+ 0 19	0.8	−1	0.356	1910
407 Arachne . . .	16	11.9	17 37.2	−29 29	1.0	+3	0.220	1908
536 Merapi	18	11.6	17 42.2	−35 33	0.9	−4	0.388	1910
501 Urhixidur . . .	18	12.8	17 43.6	−54 12	1.3	0	0.320	1910
361 Bononia	18	14.2	17 45.4	−38 14	0.8	0	0.573	1909
562 Salome	18	12.6	17 45.9	−27 59	0.9	−3	0.266	1909
209 Dido	19	11.3	17 47.5	−34 24	0.9	0	0.287	1910
*118 Peitho	19	11.7	17 48.1	−31 12	1.1	−2	0.260	1910
172 Baucis	20	10.0	17 52.2	−39 53	1.2	+2	0.091	1910
251 Sophia	20	14.2	17 55.4	− 9 35	0.8	0	0.382	1910
60 Echo	21	12.0	17 55.6	−17 59	1.0	0	0.257	1908
603 [1906 *TJ*] . .	22	14.3	17 59.2	−35 45	1.1	+1	0.246	1910
45 Eugenia	23	10.3	18 4.5	−14 14	0.9	−2	0.185	1910
591 [1906 *TP*] . .	23	13.1	18 6.4	−42 22	1.2	+2	0.175	1906
32 Pomona	23	10.4	18 6.7	−16 18	1.0	+1	0.177	1910
115 Thyra	23	11.0	18 8.4	−35 4	1.2	+3	0.212	1908
648 [1907 *AE*] . .	24	14.1	18 12.3	−28 6	0.8	+1	0.455	1909
521 Brixia	24	12.7	18 10.1	−23 56	1.0	−3	0.318	1909
48 Doris	24	11.2	18 12.2	−14 4	0.8	0	0.365	1909
197 Arete	24	12.0	18 13.1	−26 12	1.0	−5	0.150	1907
471 Papagena . . .	25	10.3	18 13.3	−26 37	0.9	−4	0.324	1910
121 Hermione . . .	26	11.1	18 16.1	−26 47	0.8	−2	0.368	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
61 Danaë	Juni 26	10.6	$18^h\ 18^m.3$	$-48°\ 32'$	$1^m.2$	+ 3	0.254	1909
388 Charybdis . . .	26	11.4	18 19.7	−33 17	0.9	0	0.270	1910
494 Virtus	26	11.9	18 20.0	−32 33	0.9	− 2	0.256	1910
146 Lucina	27	10.8	18 24.7	−27 28	1.0	− 5	0.200	1910
523 Ada	29	13.7	18 29.2	−21 45	0.9	0	0.392	1910
20 Massalia . . .	30	9.9	18 32.7	−22 10	1.1	0	0.240	1910
624 Hektor	30	13.2	18 34.9	−43 34	0.7	0	0.641	1909
273 Atropos	Juli 1	10.8	18 37.9	+11 8	0.8	− 7	0.054	1910
170 Maria	2	12.0	18 41.2	−31 56	1.2	+ 4	0.232	1904
410 Chloris	2	10.2	18 41.2	−23 57	0.9	− 9	0.030	1910
230 Athamantis . .	2	10.3	18 42.1	−12 26	1.0	+ 3	0.141	1907
83 Beatrix	2	11.2	18 45.0	−31 16	1.1	− 2	0.146	1904
175 Andromache .	4	11.4	18 49.3	−27 52	0.9	− 2	0.239	1909
320 Katharina . . .	5	14.0	18 53.5	−10 13	0.9	0	0.283	1907
679 Pax	5	10.4	18 58.4	−15 29	1.1	−12	0.143	1910
325 Heidelberga .	6	12.9	18 59.1	−33 27	1.0	0	0.405	1909
276 Adelheid . . .	6	12.2	18 59.1	+ 6 58	0.7	− 1	0.380	1907
588 Achilles	7	15.0	19 3.0	−29 16	0.5	0	0.693	1907
235 Carolina . . .	7	11.8	19 4.8	−31 52	1.0	− 4	0.231	1910
651 [1907 *AN*] . .	8	13.6	19 7.7	−37 15	1.0	− 2	0.316	1909
266 Aline	8	11.7	19 8.6	− 6 10	0.9	+ 2	0.254	1909
102 Miriam	9	11.7	19 10.6	−13 30	0.9	0	0.102	1902
284 Amalia	10	11.3	19 16.2	− 7 33	0.8	+ 4	9.920	1910
222 Lucia	11	12.1	19 18.2	−23 52	0.8	− 2	0.231	1910
497 Iva	11	12.6	19 20.8	−30 28	1.0	− 2	0.154	1902
426 Hippo	12	11.6	19 25.4	−34 29	1.2	+ 4	0.296	1908
655 [1907 *BF*] . .	13	12.7	19 27.2	−18 34	0.8	− 3	0.318	1909
338 Budrosa	13	12.1	19 27.9	−21 38	0.9	0	0.281	1909
311 Claudia	13	13.0	19 29.0	−24 19	0.9	− 3	0.282	1905
94 Aurora	13	11.5	19 29.7	−33 17	0.9	− 1	0.357	1909
260 Huberta	14	13.3	19 29.7	−13 57	0.8	− 2	0.320	1906
* 13 Egeria	15	10.2	19 35.5	−45 34	1.2	− 4	0.263	1910
567 Eleutheria . .	15	13.0	19 38.4	−32 18	0.9	− 3	0.314	1910
678 [1909 *FS*] . .	16	12.6	19 41.4	−19 25	1.0	0	0.213	1909
73 Klytia	16	12.2	19 41.7	−25 8	1.0	− 2	0.235	1905
166 Rhodope . . .	18	12.3	19 48.1	−16 14	0.9	− 7	0.206	1909
180 Garumna . . .	18	14.1	19 49.3	−21 32	0.9	− 2	0.334	1899
659 Nestor	19	13.8	19 50.3	−25 53	0.6	− 1	0.559	1909
* 17 Thetis	19	9.3	19 50.8	−19 19	0.9	− 6	0.067	1910
157 Dejanira . . .	19	14.7	19 50.9	−35 26	1.0	− 4	0.321	1908

Nr. und Name	Tag der Opp.	Gr.	12ʰ Mittlere Zeit					Letzte Beob-achtung
			AR.	Dekl.	Δα	Δδ	Log. Δ	
			h m	° ′	m	′		
504 Cora.	Juli 19	11.7	19 51.9	−25 15	0.9	−10	0.110	1909
348 May	19	13.3	19 52.1	−27 5	0.9	− 4	0.331	1910
223 Rosa	19	13.8	19 53.1	−23 32	0.9	− 3	0.381	1910
91 Aegina	20	11.7	19 58.1	−23 58	1.0	− 2	0.254	1910
371 Bohemia . . .	21	11.4	19 58.4	−17 41	1.1	0	0.195	1907
366 Vincentina . .	22	12.0	20 2.0	−33 20	1.0	0	0.292	1909
570 [1905 *QX*] . .	22	12.4	20 2.6	−18 7	0.8	− 2	0.350	1910
* 76 Freia	23	12.6	20 8.3	−17 20	0.7	− 2	0.455	1909
49 Pales	23	10.9	20 9.0	−19 17	0.9	− 2	0.297	1908
526 Jena	23	13.8	20 9.0	−19 12	0.8	− 3	0.402	1909
677 [1909 *FR*]. . .	24	12.9	20 13.3	−13 37	0.9	0	0.277	1909
* 28 Bellona	25	10.8	20 17.2	−14 25	0.8	− 5	0.339	1910
408 Fama	26	13.4	20 19.4	−18 50	0.9	0	0.333	1906
507 Laodica	26	12.4	20 20.8	−17 29	0.9	0	0.320	1909
496 Gryphia. . . .	28	13.4	20 28.2	−12 31	1.0	− 4	0.110	1902
78 Diana	29	11.7	20 30.0	−25 34	1.0	− 2	0.334	1908
560 Delila	30	14.0	20 35.2	−23 26	0.9	− 5	0.316	1905
516 Amherstia . .	31	10.2	20 38.0	−28 29	1.2	+ 3	0.133	1908
398 Admete	31	14.3	20 40.9	−11 15	0.9	− 1	0.296	1909
* 71 Niobe	31	10.4	20 41.7	−25 15	1.2	+ 5	0.207	1910
374 Burgundia . .	Aug. 3	11.5	20 49.4	− 2 56	0.8	− 4	0.230	1910
178 Belisana . . .	5	11.8	20 57.3	−20 39	0.9	− 4	0.137	1910
315 Constantia . .	5	12.9	20 58.0	−14 34	0.8	− 6	9.938	1891
505 Cava	5	12.2	20 59.4	−27 16	0.9	− 6	0.256	1909
597 [1906 *UB*] . .	6	11.6	21 3.3	−36 26	1.0	− 3	0.086	1906
585 [1906 *TA*] . .	9	13.4	21 11.8	− 7 42	0.9	− 6	0.239	1910
441 Bathilde . . .	9	12.8	21 11.8	− 4 40	0.8	− 3	0.291	1909
610 [1906 *VK*] . .	10	14.7	21 18.2	−36 4	1.0	− 2	0.204	1906
355 Gabriella . . .	11	13.4	21 21.1	−19 43	1.0	− 3	0.226	1905
417 Suevia	11	13.2	21 23.3	− 6 22	0.8	− 5	0.311	1910
529 Preziosa . . .	12	12.9	21 25.8	−31 37	0.9	− 5	0.298	1904
676 [1909 *FN*] . .	14	11.8	21 31.2	−11 0	0.7	− 9	0.229	1909
618 [1906 *VZ*] . .	15	12.1	21 36.1	−27 3	0.7	− 8	0.306	1910
*108 Hecuba	16	11.7	21 40.0	−17 25	0.9	− 3	0.348	1909
360 Carlova	17	11.8	21 44.1	−16 49	0.8	− 7	0.292	1908
530 Turandot . . .	17	11.4	21 44.2	−16 53	0.7	− 7	0.213	1910
423 Diotima	19	11.1	21 51.1	−30 2	0.8	− 5	0.307	1910
478 Tergeste . . .	19	11.3	21 53.5	+ 7 19	0.8	− 3	0.353	1910
214 Aschera	20	12.3	21 58.1	−14 2	0.9	− 4	0.223	1905
563 Suleika	21	10.9	22 1.5	−27 38	0.8	− 7	0.207	1910

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° '	m	'		
349 Dembowska. .	Aug. 24	9.9	22 10.5	−24 3	0.8	− 2	0.240	1909
653 [1907 *BK*] . .	24	13.1	22 11.7	−16 5	0.7	− 7	0.327	1907
292 Ludovica . . .	25	12.3	22 13.1	−36 57	1.1	− 2	0.178	1910
202 Chryseis . . .	27	11.2	22 22.7	−13 39	0.7	− 6	0.371	1909
64 Angelina . . .	27	11.0	22 23.5	− 9 13	0.8	− 5	0.291	1909
386 Siegena	29	9.7	22 27.7	− 2 51	0.7	−13	0.182	1906
487 Venetia	29	11.6	22 29.1	−20 46	0.8	− 6	0.189	1910
587 [1906 *TF*] . .	29	15.1	22 31.6	+ 1 56	1.2	+ 1	0.233	1908
609 [1906 *VF*] . .	30	12.9	22 32.6	− 8 3	0.7	− 6	0.311	1910
608 [1906 *VD*] . .	31	13.5	22 37.6	+ 2 50	0.8	− 2	0.229	1906
362 Havnia	Sept. 1	11.0	22 37.7	−19 59	0.9	− 3	0.193	1909
442 Eichsfeldia . .	1	12.3	22 39.6	−12 48	0.9	− 8	0.150	1910
205 Martha	5	12.5	22 55.7	+ 6 36	0.7	− 7	0.234	1907
89 Julia	5	8.9	22 57.0	+12 34	0.7	+ 6	0.046	1909
413 Edburga . . .	6	9.9	22 58.1	−43 19	0.4	−12	9.908	1896
649 [1907 *AF*] . .	7	13.0	22 59.6	−14 18	1.1	+ 6	9.921	1909
506 Marion	7	12.6	23 0.7	+ 9 11	0.9	− 1	0.331	1908
600 [1906 *UM*] . .	8	13.0	23 3.7	−13 12	0.8	− 9	0.218	1910
145 Adeona	10	11.9	23 11.6	−25 53	0.9	− 5	0.293	1909
24 Themis	11	11.4	23 17.9	− 5 26	0.7	− 4	0.396	1909
594 [1906 *TW*] . .	12	15.2	23 21.8	−16 6	0.8	−14	0.243	1906
656 [1908 *BU*] . .	14	14.2	23 27.3	− 3 21	0.7	− 5	0.399	1908
200 Dynamene . .	15	10.8	23 32.9	+ 3 4	0.9	− 3	0.172	1908
370 Modestia . . .	16	12.3	23 33.4	+11 49	0.9	− 2	0.051	1904
44 Nysa	16	10.1	23 34.9	− 7 2	0.9	− 7	0.192	1909
23 Thalia.	17	10.0	23 36.3	−18 58	0.9	− 5	0.300	1909
328 Gudrun	18	12.3	23 39.6	− 1 31	0.9	− 1	0.327	1906
378 Holmia	18	11.9	23 39.9	+ 8 27	0.8	− 6	0.166	1906
440 Theodora . . .	18	12.7	23 43.0	+ 0 56	1.0	− 6	0.106	1906
461 Saskia.	19	14.3	23 45.0	− 2 20	0.7	− 5	0.340	1900
174 Phaedra. . . .	20	11.7	23 49.2	+ 9 16	0.9	− 3	0.282	1909
483 Seppina	22	12.3	23 54.3	− 2 0	0.6	− 9	0.360	1909
274 Philagoria . .	22	14.1	23 57.3	− 5 59	0.7	− 5	0.371	1905
304 Olga.	23	10.9	0 0.0	−11 49	0.7	−17	9.964	1910
611 [1906 *VZ*] . .	25	13.5	0 4.6	+ 3 41	0.7	− 9	0.275	1908
* 53 Kalypso	26	11.4	0 4.7	− 5 0	0.8	− 7	0.189	1909
449 Hamburga . .	26	12.5	0 11.1	− 4 3	0.9	− 6	0.250	1909
267 Tirza	27	13.9	0 14.8	− 8 13	0.8	− 4	0.249	1909
556 Phyllis	29	12.5	0 18.3	+11 29	0.9	− 5	0.165	1909
540 Rosamunde . .	29	12.7	0 18.6	+ 4 52	0.9	− 9	0.149	1910

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	Δα	Δδ	Log Δ.	
			h m	° '	m	'		
457 Alleghenia . .	Sept. 29	14.0	0 20.3	+22 10	0.7	− 6	0.199	1900
291 Alice	29	13.8	0 21.8	+ 0 54	1.1	− 7	0.122	1901
644 [1907 *AA*] . .	30	12.1	0 24.1	+ 0 35	0.8	− 5	0.075	1908
364 Isara	30	11.0	0 24.8	−10 10	0.9	− 6	9.999	1906
430 Hybris	30	12.0	0 25.8	+26 19	0.8	− 7	0.128	1897
176 Idunna	Okt. 1	11.0	0 27.4	+11 17	0.6	−14	0.211	1909
352 Gisela	1	11.1	0 27.7	+ 9 39	0.9	− 7	9.947	1908
114 Kassandra . .	2	11.6	0 29.5	+ 0 4	0.8	− 7	0.293	1909
187 Lamberta . . .	2	12.4	0 32.0	− 0 54	0.9	− 3	0.355	1909
139 Juewa	2	11.6	0 32.3	+ 5 32	0.9	− 3	0.343	1909
559 Nanon	2	12.6	0 33.7	−11 17	0.8	− 6	0.263	1910
416 Vaticana . . .	4	11.7	0 35.5	−13 24	1.0	− 2	0.282	1910
188 Menippe . . .	4	12.5	0 36.8	+19 50	0.8	− 8	0.179	1909
369 Aëria	4	12.2	0 40.7	−19 1	0.9	− 3	0.160	1907
409 Aspasia	7	11.0	0 50.5	+19 13	0.8	− 7	0.238	1909
293 Brasilia	7	13.3	0 50.8	−15 5	0.8	− 4	0.328	1890
621 [1906 *WJ*] . .	8	13.8	0 51.8	+ 2 25	0.8	− 4	0.300	1906
265 Anna	9	15.1	0 55.0	+37 28	1.2	− 1	0.322	1902
150 Nuwa	10	10.8	0 59.0	+ 7 3	0.8	− 6	0.211	1908
22 Kalliope	10	9.5	1 2.6	−12 31	0.9	− 2	0.240	1909
607 [1906 *VC*] . .	12	13.1	1 7.1	+23 6	0.8	− 6	0.323	1910
133 Cyrene	12	11.8	1 8.0	+16 51	0.8	− 4	0.371	1908
308 Polyxo	12	11.0	1 9.0	+ 5 18	0.8	− 6	0.240	1910
533 Sara	14	13.7	1 17.5	+ 4 50	0.7	− 6	0.329	1910
287 Nephthys . . .	16	10.8	1 22.5	− 6 47	0.9	− 6	0.148	1910
453 Tea	16	12.8	1 23.2	+10 48	1.1	− 4	0.144	1910
432 Pythia	18	11.6	1 27.4	−10 59	1.0	− 3	0.184	1910
* 47 Aglaja	18	10.8	1 28.1	+12 17	0.9	− 3	0.233	1909
534 Nassovia . . .	18	12.5	1 31.8	+ 4 16	0.8	− 6	0.231	1909
658 [1908 *BW*] . .	19	13.4	1 35.9	+11 28	0.8	− 4	0.236	1908
* 90 Antiope	21	11.4	1 40.0	+ 7 51	0.8	− 4	0.301	1908
* 37 Fides	22	9.5	1 45.4	+13 1	0.9	− 3	0.099	1909
613 [1906 *VP*] . .	24	12.8	1 51.5	+19 5	0.9	− 2	0.250	1906
227 Philosophia . .	26	13.8	2 0.4	+24 18	0.8	− 3	0.448	1908
557 Violetta	26	13.7	2 1.0	+16 47	1.0	− 5	0.156	1909
466 Tisiphone . . .	27	12.1	2 3.5	+39 37	0.9	− 4	0.417	1907
605 [1906 *UU*] . .	27	12.4	2 4.2	+40 2	1.1	− 1	0.248	1906
385 Ilmatar	27	10.7	2 6.6	+29 48	1.0	− 2	0.322	1910
403 Cyane	28	12.1	2 8.3	+20 28	0.8	− 7	0.263	1910
518 Halawe	28	12.7	2 8.4	+10 47	0.9	− 6	0.097	1903

Nr. und Name	Tag der Opp.	Gr.	12ʰ Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
218 Bianca	Okt. 29	12.0	2 10.3	— 2 42	0.8	—7	0.290	1910
*241 Germania . . .	30	10.8	2 15.1	+20 49	0.8	—5	0.267	1910
310 Margarita . . .	30	13.5	2 18.1	+14 59	0.8	—5	0.309	1891
661 [1908 *CL*]. . .	31	12.7	2 18.2	+26 56	0.9	—3	0.309	1908
647 [1907 *AD*] . .	31	12.4	2 19.9	+22 56	0.9	—8	0.010	1907
508 Princetonia . .	Nov. 1	12.3	2 22.2	+11 17	0.9	—1	0.344	1908
124 Alkeste	1	10.1	2 23.4	+11 55	0.9	—5	0.258	1909
261 Prymno	2	12.1	2 27.4	+ 9 4	1.0	—4	0.157	1909
14 Irene	3	10.3	2 32.0	+ 3 54	0.9	—3	0.281	1909
156 Xanthippe . .	5	12.4	2 41.2	+20 28	0.9	—4	0.371	1906
119 Althaea	6	10.1	2 44.1	+12 33	0.9	—7	0.147	1909
221 Eos	6	11.1	2 44.4	— 0 53	0.8	—4	0.285	1910
206 Hersilia	6	11.8	2 46.5	+ 9 58	1.2	—4	0.222	1910
5 Astraea	7	9.6	2 46.9	+ 7 3	1.0	—2	0.182	1905
* 26 Proserpina . .	11	11.0	3 1.5	+17 22	1.0	—3	0.277	1910
303 Josephina . . .	11	11.6	3 5.5	+27 20	0.8	—2	0.283	1909
249 Ilse	11	12.5	3 5.7	+37 12	1.2	—3	9.980	1907
680 [1909 *GW*] . .	12	13.8	3 6.4	+21 44	0.9	—1	0.418	1909
203 Pompeja . . .	12	11.3	3 7.2	+22 18	1.0	—3	0.200	1909
58 Concordia . . .	12	11.8	3 8.3	+10 18	0.9	—4	0.256	1910
428 Monachia . . .	12	11.7	3 10.0	+25 43	1.1	—1	9.964	1897
268 Adorea	13	13.0	3 10.0	+14 19	0.8	—3	0.370	1907
577 [1905 *RH*] . .	15	13.3	3 19.5	+26 4	0.9	—3	0.366	1908
652 Jubilatrix . . .	16	12.8	3 23.6	+ 2 7	1.1	+4	0.132	1909
12 Victoria	18	9.9	3 33.1	+17 35	1.0	—7	0.157	1910
305 Gordonia . . .	18	11.5	3 33.6	+16 13	0.8	—5	0.208	1905
532 Herculina . . .	18	10.3	3 35.0	— 1 25	0.9	—1	0.319	1909
255 Oppavia	20	13.9	3 41.5	+30 20	1.1	—1	0.256	1904
554 Peraga	20	9.8	3 42.2	+24 40	1.0	—4	0.010	1909
681 [1909 *GZ*] . .	21	14.5	3 44.7	+ 4 14	0.8	—4	0.354	1909
142 Polana	21	12.9	3 45.0	+22 43	1.0	—4	0.240	1903
*288 Glauke	22	13.3	3 50.8	+14 26	0.9	—2	0.337	1909
326 Tamara	23	12.1	3 52.9	+40 42	1.6	+2	0.244	1907
2 Pallas	24	7.5	3 55.2	—30 29	0.9	—6	0.208	1909
212 Medea	26	11.5	4 4.5	+27 14	0.9	—3	0.247	1907
456 Abnoba	26	13.8	4 6.5	+15 58	0.9	—6	0.360	1910
67 Asia	27	11.5	4 11.5	+14 37	1.0	—4	0.198	1910
576 Emanuela . . .	27	12.7	4 13.0	+33 42	0.9	—5	0.300	1905
377 Campania . . .	29	11.1	4 20.1	+14 59	0.9	—5	0.180	1906
397 Vienna	Dez. 1	11.6	4 25.0	+14 3	1.0	—9	0.095	1910

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
63 Ausonia . . .	Dez. 2	10.6	4 28.5	+31 3	1.2	− 2	0.229	1909
548 Kressida . . .	2	11.9	4 29.3	+16 32	1.0	+ 1	9.943	1909
564 Dudu	3	14.7	4 37.6	+21 52	1.0	+ 2	0.366	1905
511 Davida	4	8.4	4 39.1	+ 5 43	0.9	+ 4	0.203	1909
321 Florentina . .	6	12.9	4 47.5	+24 38	1.0	− 1	0.247	1903
253 Mathilde . . .	7	13.3	4 53.0	+12 11	1.0	− 1	0.205	1906
629 [1907 *XU*] . .	9	13.1	5 1.7	+19 44	0.9	+ 2	0.240	1907
573 [1905 *RC*] . .	10	12.9	5 6.9	+37 54	1.1	− 2	0.275	1908
245 Vera	11	11.7	5 11.7	+25 24	1.0	+ 1	0.217	1907
650 [1907 *AM*] . .	12	13.8	5 15.0	+19 42	1.0	− 2	0.052	1907
376 Geometria . .	13	12.7	5 21.3	+28 51	0.9	− 1	0.230	1910
164 Eva	14	10.4	5 22.4	+26 43	1.5	+13	0.076	1905
531 Zerlina	14	15.1	5 25.5	−19 53	0.9	− 3	0.402	1904
195 Eurykleia . . .	15	12.1	5 27.6	+33 42	1.1	0	0.258	1910
583 Klotilde	15	12.6	5 27.9	+22 58	0.9	− 3	0.277	1908
367 Amicitia . . .	16	12.1	5 28.1	+23 15	1.2	+ 1	0.040	1909
537 Pauly	17	13.9	5 37.3	+15 12	0.8	+ 1	0.412	1909
263 Dresda	17	13.1	5 37.6	+21 55	0.9	− 1	0.256	1906
51 Nemausa . . .	19	9.9	5 44.1	+ 6 26	1.0	0	0.144	1909
524 Fidelio	19	11.9	5 48.3	+35 17	1.2	− 2	0.160	1910
401 Ottilia	19	12.9	5 48.6	+29 48	0.9	− 1	0.395	1907
167 Urda	19	13.2	5 48.8	+20 13	0.9	0	0.293	1906
646 [1907 *AC*] . .	20	14.8	5 50.6	+30 12	1.3	− 3	0.149	1907
298 Baptistina . .	20	13.2	5 53.8	+34 58	1.3	0	0.060	1907
486 Cremona . . .	21	14.0	5 57.0	+21 51	1.1	+ 4	0.200	1902
346 Hermentaria .	22	11.3	6 1.4	+22 53	1.0	+ 3	0.229	1908
368 Haidea	23	14.1	6 4.3	+16 16	0.8	− 1	0.387	1893
306 Unitas	23	11.4	6 4.3	+14 28	1.1	+ 2	0.217	1910
657 [1908 *BV*] . .	23	13.6	6 5.1	+31 6	1.1	− 3	0.200	1908
211 Isolda	25	10.5	6 10.6	+22 39	0.9	− 1	0.200	1910
683 [1909 *HC*] . .	25	12.3	6 11.6	+17 26	0.9	− 4	0.322	1909
257 Silesia	25	12.2	6 12.0	+28 13	1.0	+ 1	0.251	1907
454 Mathesis . . .	26	11.9	6 15.0	+32 0	1.1	+ 1	0.241	1908
615 [1906 *VR*] . .	26	13.1	6 20.2	+27 33	1.1	+ 1	0.283	1909
480 Hansa	27	11.3	6 22.2	+ 1 38	1.0	− 6	0.204	1906
448 Natalie	27	13.9	6 24.1	+38 13	1.0	+ 2	0.384	1899
445 Edna	28	12.3	6 27.3	+33 24	1.1	− 6	0.302	1905
509 Iolanda	29	11.5	6 28.9	+ 3 43	1.0	− 2	0.318	1909
165 Loreley	29	11.5	6 29.0	+30 44	1.0	− 2	0.373	1907
498 Tokio	30	11.7	6 34.5	+23 13	1.0	+ 4	0.273	1909

Nr. und Name	Tag der Opp.	Gr.	12^h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
233 Asterope . . .	Dez. 31	11.5	6 39.1	−13 10	1.0	0	0.249	1910
538 Friederike . .	31	13.1	6 41.2	+16 33	0.9	+3	0.330	1909
69 Hesperia . . .	31	9.7	6 41.2	+ 9 7	1.1	+1	0.183	1905
259 Aletheia . . .	32	12.6	6 41.9	+26 1	0.8	+3	0.387	1905
465 Alekto	32	13.9	6 43.7	+25 54	0.9	0	0.382	1908
406 Erna	33	13.7	6 48.4	+26 44	0.9	0	0.306	1910
140 Siwa	33	12.4	6 49.5	+22 29	1.0	+2	0.360	1909
614 [1906 *VQ*] . .	37	13.1	7 6.2	+11 32	0.9	+1	0.186	1906
637 [1907 *YE*] . .	39	13.6	7 15.4	+22 48	0.9	+2	0.292	1907
545 Messalina . . .	39	13.1	7 16.5	+33 41	0.9	0	0.442	1907
580 [1905 *SE*] . .	41	13.4	7 23.9	+23 0	0.9	+3	0.287	1905
581 Tauntonia . .	46	13.5	7 45.9	+27 31	0.9	+8	0.331	1908
660 [1908 *CC*] . .	47	11.1	7 51.0	+ 5 38	0.9	+6	0.252	1909

Von den mit einem Sternchen (*) bezeichneten Planeten enthält das Jahrbuch Seite (53)—(73) ausführliche Ephemeriden. — Nicht berücksichtigt sind die Planeten: 99, 132, 155, 193, 220, 285, 323, 330, 353, 392, 396, 400, 452, 463, 473, 474, 489, 493, 515, 517.

(19) FORTUNA 1911.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Jan. 5	7 49 39.97	−62.84	+18 23 18.7	+2 27.2	0.129012	11 11
6	7 48 37.13	63.37	18 25 45.9	2 28.6	0.128806	11 11
7	7 47 33.76	63.84	18 28 14.5	2 30.1	0.128688	11 10
8	7 46 29.92	64.20	18 30 44.6	2 31.5	0.128658	11 10
9	7 45 25.72	−64.48	18 33 16.1	+2 32.8	0.128716	11 11
10	7 44 21.24	64.68	+18 35 48.9	2 33.9	0.128864	11 11
11	7 43 16.56	64.80	18 38 22.8	2 34.6	0.129101	11 11
12	7 42 11.76	64.81	18 40 57.4	2 35.2	0.129428	11 12
13	7 41 6.95	64.74	18 43 32.6	2 35.6	0.129845	11 12
☍ 14	7 40 2.21	−64.60	18 46 8.2	+2 35.7	0.130352	11 13
15	7 38 57.61	64.36	+18 48 43.9	2 35.5	0.130947	11 14
16	7 37 53.25	64.02	18 51 19.4	2 35.3	0.131629	11 15
17	7 36 49.23	63.60	18 53 54.7	2 34.8	0.132399	11 16
18	7 35 45.63	63.10	18 56 29.5	2 34.2	0.133254	11 18
19	7 34 42.53	−62.52	18 59 3.7	+2 33.3	0.134196	11 19
20	7 33 40.01	61.85	+19 1 37.0	2 32.2	0.135225	11 21
21	7 32 38.16	61.09	19 4 9.2	2 31.1	0.136339	11 22
22	7 31 37.07	60.23	19 6 40.3	2 29.8	0.137536	11 24
23	7 30 36.84	59.29	19 9 10.1	2 28.3	0.138815	11 26
24	7 29 37.55	−58.27	19 11 38.4	+2 26.7	0.140175	11 28
25	7 28 39.28	57.18	+19 14 5.1	2 24.9	0.141614	11 31
26	7 27 42.10	56.01	19 16 30.0	2 23.0	0.143131	11 33
27	7 26 46.09	54.77	19 18 53.0	2 21.0	0.144725	11 36
28	7 25 51.32	53.47	19 21 14.0	2 18.9	0.146396	11 39
29	7 24 57.85	−52.09	19 23 32.9	+2 16.7	0.148142	11 41
30	7 24 5.76	50.66	+19 25 49.6	2 14.4	0.149959	11 44
31	7 23 15.10	49.18	19 28 4.0	2 11.9	0.151844	11 47
Febr. 1	7 22 25.92	47.64	19 30 15.9	2 9.3	0.153798	11 50
2	7 21 38.28	46.04	19 32 25.2	2 6.7	0.155817	11 54
3	7 20 52.24	−44.39	19 34 31.9	+2 4.0	0.157899	11 57
4	7 20 7.85	42.68	+19 36 35.9	2 1.2	0.160044	12 1
5	7 19 25.17	40.94	19 38 37.1	1 58.3	0.162249	12 4
6	7 18 44.23	39.17	19 40 35.4	1 55.3	0.164511	12 8
7	7 18 5.06	37.37	19 42 30.7	1 52.3	0.166828	12 12
8	7 17 27.69	−35.54	19 44 23.0	+1 49.3	0.169198	12 16
9	7 16 52.15	33.69	+19 46 12.3	1 46.2	0.171619	12 20
10	7 16 18.46		19 47 58.5		0.174089	12 24

Opp. in AR. Jan. 14 Gröſse = 9.6

P. Neugebauer.

(113) AMALTHEA 1911.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Jan. 16	9 4 51.84	−50.23	+17 8 36.3	+6 22.0	0.128874	11 11
17	9 4 1.61	51.48	17 14 58.3	6 27.1	0.127347	11 8
18	9 3 10.13	52.67	17 21 25.4	6 31.8	0.125897	11 6
19	9 2 17.46	53.80	17 27 57.2	6 36.0	0.124525	11 4
20	9 1 23.66	−54.86	17 34 33.2	+6 39.7	0.123233	11 2
21	9 0 28.80	55.84	+17 41 12.9	6 43.1	0.122024	11 0
22	8 59 32.96	56.76	17 47 56.0	6 45.8	0.120899	10 58
23	8 58 36.20	57.58	17 54 41.8	6 48.1	0.119860	10 57
24	8 57 38.62	58.33	18 1 29.9	6 50.0	0.118907	10 55
25	8 56 40.29	−59.00	18 8 19.9	+6 51.2	0.118044	10 54
26	8 55 41.29	59.57	+18 15 11.1	6 52.1	0.117269	10 53
27	8 54 41.72	60.06	18 22 3.2	6 52.3	0.116585	10 52
28	8 53 41.66	60.46	18 28 55.5	6 52.1	0.115992	10 51
29	8 52 41.20	60.76	18 35 47.6	6 51.3	0.115491	10 50
☍ 30	8 51 40.44	−60.97	18 42 38.9	+6 50.1	0.115081	10 50
31	8 50 39.47	61.08	+18 49 29.0	6 48.3	0.114764	10 49
Febr. 1	8 49 38.39	61.09	18 56 17.3	6 46.0	0.114539	10 49
2	8 48 37.30	61.02	19 3 3.3	6 43.2	0.114407	10 49
3	8 47 36.28	60.84	19 9 46.5	6 40.0	0.114367	10 49
4	8 46 35.44	−60.57	19 16 26.5	+6 36.3	0.114418	10 49
5	8 45 34.87	60.20	+19 23 2.8	6 32.2	0.114561	10 49
6	8 44 34.67	59.75	19 29 35.0	6 27.6	0.114795	10 49
7	8 43 34.92	59.21	19 36 2.6	6 22.7	0.115118	10 50
8	8 42 35.71	58.58	19 42 25.3	6 17.3	0.115531	10 50
9	8 41 37.13	−57.86	19 48 42.6	+6 11.6	0.116032	10 51
10	8 40 39.27	57.07	+19 54 54.2	6 5.6	0.116619	10 52
11	8 39 42.20	56.19	20 0 59.8	5 59.1	0.117292	10 53
12	8 38 46.01	55.24	20 6 58.9	5 52.5	0.118049	10 54
13	8 37 50.77	54.21	20 12 51.4	5 45.6	0.118890	10 55
14	8 36 56.56	−53.11	20 18 37.0	+5 38.3	0.119813	10 57
15	8 36 3.45	51.93	+20 24 15.3	5 30.9	0.120816	10 58
16	8 35 11.52	50.69	20 29 46.2	5 23.2	0.121898	11 0
17	8 34 20.83	49.36	20 35 9.4	5 15.3	0.123057	11 2
18	8 33 31.47	47.99	20 40 24.7	5 7.2	0.124292	11 4
19	8 32 43.48	−46.53	20 45 31.9	+4 58.9	0.125601	11 6
20	8 31 56.95	45.02	+20 50 30.8	4 50.4	0.126982	11 8
21	8 31 11.93		20 55 21.2		0.128434	11 10

Opp. in AR. Jan. 30   Gröſse = 10.8

W. Luther.

(68) LETO 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Febr. 6	$10^h\ 16^m\ 56.^s38$	$-50.^s97$	$+22°\ 41'\ 18.''4$	$+5'\ 4.''8$	0.359149	$19^m\ 0^s$
7	10 16 5.41	51.54	22 46 23.2	5 1.0	0.358765	18 59
8	10 15 13.87	52.06	22 51 24.2	4 57.0	0.358437	18 58
9	10 14 21.81	52.54	22 56 21.2	4 52.7	0.358165	18 57
10	10 13 29.27	−52.97	23 1 13.9	+4 48.0	0.357951	18 57
11	10 12 36.30	53.34	+23 6 1.9	4 43.1	0.357794	18 56
12	10 11 42.96	53.67	23 10 45.0	4 37.9	0.357694	18 56
13	10 10 49.29	53.94	23 15 22.9	4 32.4	0.357651	18 56
14	10 9 55.35	54.16	23 19 55.3	4 26.5	0.357666	18 56
15	10 9 1.19	−54.31	23 24 21.8	+4 20.4	0.357739	18 56
16	10 8 6.88	54.42	+23 28 42.2	4 14.0	0.357869	18 56
17	10 7 12.46	54.48	23 32 56.2	4 7.3	0.358057	18 57
☍ 18	10 6 17.98	54.48	23 37 3.5	4 0.3	0.358301	18 58
19	10 5 23.50	54.44	23 41 3.8	3 53.1	0.358603	18 58
20	10 4 29.06	−54.34	23 44 56.9	+3 45.7	0.358962	18 59
21	10 3 34.72	54.18	+23 48 42.6	3 38.1	0.359378	19 0
22	10 2 40.54	53.96	23 52 20.7	3 30.3	0.359849	19 1
23	10 1 46.58	53.70	23 55 51.0	3 22.3	0.360377	19 3
24	10 0 52.88	53.37	23 59 13.3	3 14.0	0.360960	19 4
25	9 59 59.51	−52.99	24 2 27.3	+3 5.7	0.361599	19 6
26	9 59 6.52	52.56	+24 5 33.0	2 57.2	0.362293	19 8
27	9 58 13.96	52.06	24 8 30.2	2 48.5	0.363041	19 10
28	9 57 21.90	51.50	24 11 18.7	2 39.8	0.363840	19 12
März 1	9 56 30.40	50.91	24 13 58.5	2 30.9	0.364692	19 14
2	9 55 39.49	−50.28	24 16 29.4	+2 22.0	0.365595	19 17
3	9 54 49.21	49.59	+24 18 51.4	2 12.9	0.366549	19 19
4	9 53 59.62	48.86	24 21 4.3	2 3.8	0.367552	19 22
5	9 53 10.76	48.10	24 23 8.1	1 54.6	0.368604	19 25
6	9 52 22.66	47.27	24 25 2.7	1 45.3	0.369705	19 28
7	9 51 35.39	−46.41	24 26 48.0	+1 36.1	0.370852	19 31
8	9 50 48.98	45.50	+24 28 24.1	1 26.9	0.372044	19 34
9	9 50 3.48	44.55	24 29 51.0	1 17.7	0.373280	19 37
10	9 49 18.93	43.59	24 31 8.7	1 8.4	0.374560	19 41
11	9 48 35.34	42.60	24 32 17.1	0 59.3	0.375882	19 45
12	9 47 52.74	−41.56	24 33 16.4	+0 50.2	0.377246	19 48
13	9 47 11.18	40.45	+24 34 6.6	0 41.0	0.378650	19 52
14	9 46 30.73		24 34 47.6		0.380092	19 56

Opp. in AR. Febr. 18 Gröſse = 11.4

P. Neugebauer.

(84) KLIO 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 26	11 0 9.61	−59.99	+2 23 27.0	+3 19.4	0.287409	16 6
27	10 59 9.62	60.28	2 26 46.4	3 23.1	0.286919	16 5
28	10 58 9.34	60.52	2 30 9.5	3 26.4	0.286496	16 4
März 1	10 57 8.82	60.70	2 33 35.9	3 29.4	0.286142	16 4
2	10 56 8.12	−60.82	2 37 5.3	+3 31.8	0.285856	16 3
☍ 3	10 55 7.30	60.88	+2 40 37.1	3 34.2	0.285639	16 2
4	10 54 6.42	60.86	2 44 11.3	3 36.1	0.285491	16 2
5	10 53 5.56	60.78	2 47 47.4	3 37.8	0.285413	16 2
6	10 52 4.78	60.66	2 51 25.2	3 39.1	0.285405	16 2
7	10 51 4.12	−60.47	2 55 4.3	+3 40.1	0.285465	16 2
8	10 50 3.65	60.21	+2 58 44.4	3 40.7	0.285592	16 2
9	10 49 3.44	59.89	3 2 25.1	3 41.0	0.285784	16 3
10	10 48 3.55	59.53	3 6 6.1	3 41.0	0.286042	16 3
11	10 47 4.02	59.11	3 9 47.1	3 40.9	0.286369	16 4
12	10 46 4.91	−58.62	3 13 28.0	+3 40.3	0.286763	16 5
13	10 45 6.29	58.08	+3 17 8.3	3 39.5	0.287223	16 6
14	10 44 8.21	57.50	3 20 47.8	3 38.5	0.287749	16 7
15	10 43 10.71	56.85	3 24 26.3	3 37.2	0.288339	16 8
16	10 42 13.86	56.15	3 28 3.5	3 35.5	0.288994	16 10
17	10 41 17.71	−55.41	3 31 39.0	+3 33.5	0.289712	16 11
18	10 40 22.30	54.62	+3 35 12.5	3 31.4	0.290492	16 13
19	10 39 27.68	53.78	3 38 43.9	3 28.9	0.291334	16 15
20	10 38 33.90	52.90	3 42 12.8	3 26.2	0.292236	16 17
21	10 37 41.00	51.95	3 45 39.0	3 23.1	0.293196	16 19
22	10 36 49.05	−50.98	3 49 2.1	+3 20.0	0.294215	16 21
23	10 35 58.07	49.95	+3 52 22.1	3 16.6	0.295291	16 24
24	10 35 8.12	48.88	3 55 38.7	3 12.9	0.296424	16 26
25	10 34 19.24	47.76	3 58 51.6	3 9.0	0.297612	16 29
26	10 33 31.48	46.62	4 2 0.6	3 4.9	0.298855	16 32
27	10 32 44.86	−45.45	4 5 5.5	+3 0.6	0.300149	16 35
28	10 31 59.41	44.23	+4 8 6.1	2 56.0	0.301493	16 38
29	10 31 15.18	42.99	4 11 2.1	2 51.2	0.302888	16 41
30	10 30 32.19	41.71	4 13 53.3	2 46.2	0.304331	16 45
31	10 29 50.48	40.40	4 16 39.5	2 41.0	0.305821	16 48
April 1	10 29 10.08	−39.05	4 19 20.5	+2 35.6	0.307356	16 52
2	10 28 31.03	37.67	+4 21 56.1	2 30.2	0.308935	16 55
3	10 27 53.36		4 24 26.3		0.310556	16 59

Opp. in AR. März 3   Gröfse = 12.6

P. Neugebauer.

(153) HILDA 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
März 18	12 33 54.03	−34.20	−10 59 50.3	+4 7.7	0.469051	24 28
19	12 33 19.83	34.55	10 55 42.6	4 13.0	0.468252	24 26
20	12 32 45.28	34.88	10 51 29.6	4 18.1	0.467495	24 23
21	12 32 10.40	35.17	10 47 11.5	4 23.0	0.466780	24 20
22	12 31 35.23	−35.43	10 42 48.5	+4 27.7	0.466107	24 18
23	12 30 59.80	35.66	−10 38 20.8	4 32.2	0.465477	24 16
24	12 30 24.14	35.87	10 33 48.6	4 36.6	0.464890	24 14
25	12 29 48.27	36.03	10 29 12.0	4 40.8	0.464348	24 12
26	12 29 12.24	36.15	10 24 31.2	4 44.7	0.463849	24 11
27	12 28 36.09	−36.24	10 19 46.5	+4 48.4	0.463395	24 9
☍ 28	12 27 59.85	36.29	−10 14 58.1	4 51.9	0.462984	24 8
29	12 27 23.56	36.31	10 10 6.2	4 55.1	0.462618	24 6
30	12 26 47.25	36.30	10 5 11.1	4 58.1	0.462296	24 5
31	12 26 10.95	36.26	10 0 13.0	5 0.9	0.462020	24 5
April 1	12 25 34.69	−36.18	9 55 12.1	+5 3.4	0.461790	24 4
2	12 24 58.51	36.06	− 9 50 8.7	5 5.6	0.461604	24 4
3	12 24 22.45	35.92	9 45 3.1	5 7.6	0.461464	24 3
4	12 23 46.53	35.74	9 39 55.5	5 9.4	0.461369	24 3
5	12 23 10.79	35.52	9 34 46.1	5 10.9	0.461319	24 2
6	12 22 35.27	−35.27	9 29 35.2	+5 12.1	0.461314	24 2
7	12 22 0.00	34.99	− 9 24 23.1	5 13.1	0.461353	24 2
8	12 21 25.01	34.68	9 19 10.0	5 13.8	0.461437	24 3
9	12 20 50.33	34.34	9 13 56.2	5 14.3	0.461564	24 3
10	12 20 15.99	33.98	9 8 41.9	5 14.5	0.461735	24 4
11	12 19 42.01	−33.59	9 3 27.4	+5 14.6	0.461949	24 4
12	12 19 8.42	33.16	− 8 58 12.8	5 14.5	0.462206	24 5
13	12 18 35.26	32.70	8 52 58.3	5 14.0	0.462506	24 6
14	12 18 2.56	32.22	8 47 44.3	5 13.4	0.462848	24 7
15	12 17 30.34	31.72	8 42 30.9	5 12.6	0.463232	24 8
16	12 16 58.62	−31.19	8 37 18.3	+5 11.5	0.463657	24 10
17	12 16 27.43	30.62	− 8 32 6.8	5 10.1	0.464123	24 11
18	12 15 56.81	30.04	8 26 56.7	5 8.5	0.464630	24 13
19	12 15 26.77	29.44	8 21 48.2	5 6.7	0.465177	24 15
20	12 14 57.33	28.80	8 16 41.5	5 4.7	0.465764	24 17
21	12 14 28.53	−28.14	8 11 36.8	+5 2.5	0.466390	24 19
22	12 14 0.39	27.48	− 8 6 34.3	5 0.2	0.467055	24 21
23	12 13 32.91		8 1 34.1		0.467757	24 24

Opp. in AR. März 28 Gröfse = 12.6

P. Neugebauer.

(79) EURYNOME 1911.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
März 22	12 40 47.99	−51.89	−6 51 7.3	+6 47.8	0.253744	14 54
23	12 39 56.10	52.21	6 44 19.5	6 52.2	0.253387	14 54
24	12 39 3.89	52.48	6 37 27.3	6 56.2	0.253099	14 53
25	12 38 11.41	52.70	6 30 31.1	6 59.7	0.252882	14 52
26	12 37 18.71	−52.86	6 23 31.4	+7 2.7	0.252735	14 52
27	12 36 25.85	52.96	−6 16 28.7	7 5.3	0.252659	14 52
28	12 35 32.89	53.02	6 9 23.4	7 7.3	0.252656	14 52
29	12 34 39.87	53.00	6 2 16.1	7 9.1	0.252727	14 52
☍ 30	12 33 46.87	52.93	5 55 7.0	7 10.4	0.252872	14 52
31	12 32 53.94	−52.81	5 47 56.6	+7 11.1	0.253088	14 53
April 1	12 32 1.13	52.62	−5 40 45.5	7 11.5	0.253375	14 53
2	12 31 8.51	52.39	5 33 34.0	7 11.5	0.253731	14 54
3	12 30 16.12	52.08	5 26 22.5	7 11.0	0.254156	14 55
4	12 29 24.04	51.73	5 19 11.5	7 10.1	0.254649	14 56
5	12 28 32.31	−51.30	5 12 1.4	+7 8.6	0.255209	14 57
6	12 27 41.01	50.84	−5 4 52.8	7 6.8	0.255834	14 59
7	12 26 50.17	50.32	4 57 46.0	7 4.6	0.256525	15 0
8	12 25 59.85	49.74	4 50 41.4	7 1.9	0.257283	15 2
9	12 25 10.11	49.09	4 43 39.5	6 58.6	0.258109	15 3
10	12 24 21.02	−48.40	4 36 40.9	+6 55.1	0.259004	15 5
11	12 23 32.62	47.68	−4 29 45.8	6 51.3	0.259967	15 7
12	12 22 44.94	46.92	4 22 54.5	6 47.1	0.260994	15 9
13	12 21 58.02	46.10	4 16 7.4	6 42.5	0.262084	15 11
14	12 21 11.92	45.24	4 9 24.9	6 37.6	0.263235	15 14
15	12 20 26.68	−44.34	4 2 47.3	+6 32.4	0.264446	15 16
16	12 19 42.34	43.40	−3 56 14.9	6 26.9	0.265716	15 19
17	12 18 58.94	42.43	3 49 48.0	6 21.0	0.267044	15 22
18	12 18 16.51	41.42	3 43 27.0	6 15.0	0.268428	15 25
19	12 17 35.09	40.37	3 37 12.0	6 8.5	0.269868	15 28
20	12 16 54.72	−39.28	3 31 3.5	+6 1.8	0.271363	15 31
21	12 16 15.44	38.17	−3 25 1.7	5 54.6	0.272912	15 34
22	12 15 37.27	37.03	3 19 7.1	5 47.4	0.274512	15 38
23	12 15 0.24	35.85	3 13 19.7	5 40.0	0.276163	15 42
24	12 14 24.39	34.63	3 7 39.7	5 32.4	0.277863	15 45
25	12 13 49.76	−33.40	3 2 7.3	+5 24.8	0.279610	15 49
26	12 13 16.36	32.16	−2 56 42.5	5 17.0	0.281404	15 53
27	12 12 44.20		2 51 25.5		0.283241	15 57

Opp. in AR. März 30 Gröſse = 11.3

P. Neugebauer.

(122) GERDA 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
April 15	14 21 25.76	−42.13	−12 39 59.7	+4 4.3	0.315037	17 10
16	14 20 43.63	42.59	12 35 55.4	4 6.6	0.314429	17 8
17	14 20 1.04	43.02	12 31 48.8	4 8.6	0.313880	17 7
18	14 19 18.02	43.41	12 27 40.2	4 10.5	0.313389	17 6
19	14 18 34.61	−43.73	12 23 29.7	+4 12.0	0.312956	17 5
20	14 17 50.88	44.01	−12 19 17.7	4 13.3	0.312582	17 4
21	14 17 6.87	44.24	12 15 4.4	4 14.4	0.312267	17 3
22	14 16 22.63	44.41	12 10 50.0	4 15.2	0.312012	17 3
23	14 15 38.22	44.55	12 6 34.8	4 15.6	0.311817	17 2
24	14 14 53.67	−44.63	12 2 19.2	+4 15.9	0.311682	17 2
25	14 14 9.04	44.66	−11 58 3.3	4 15.9	0.311607	17 2
☍ 26	14 13 24.38	44.65	11 53 47.4	4 15.6	0.311593	17 2
27	14 12 39.73	44.58	11 49 31.8	4 15.0	0.311639	17 2
28	14 11 55.15	44.44	11 45 16.8	4 14.2	0.311745	17 2
29	14 11 10.71	−44.26	11 41 2.6	+4 13.1	0.311912	17 2
30	14 10 26.45	44.04	−11 36 49.5	4 11.7	0.312139	17 3
Mai 1	14 9 42.41	43.78	11 32 37.8	4 10.0	0.312426	17 3
2	14 8 58.63	43.46	11 28 27.8	4 8.0	0.312772	17 4
3	14 8 15.17	43.09	11 24 19.8	4 5.7	0.313177	17 5
4	14 7 32.08	−42.68	11 20 14.1	+4 3.3	0.313641	17 6
5	14 6 49.40	42.23	−11 16 10.8	4 0.5	0.314163	17 8
6	14 6 7.17	41.72	11 12 10.3	3 57.5	0.314742	17 9
7	14 5 25.45	41.15	11 8 12.8	3 54.2	0.315377	17 10
8	14 4 44.30	40.55	11 4 18.6	3 50.8	0.316068	17 12
9	14 4 3.75	−39.93	11 0 27.8	+3 47.0	0.316814	17 14
10	14 3 23.82	39.28	−10 56 40.8	3 43.1	0.317614	17 16
11	14 2 44.54	38.58	10 52 57.7	3 38.9	0.318468	17 18
12	14 2 5.96	37.85	10 49 18.8	3 34.4	0.319374	17 20
13	14 1 28.11	37.09	10 45 44.4	3 29.8	0.320332	17 22
14	14 0 51.02	−36.29	10 42 14.6	+3 25.1	0.321342	17 25
15	14 0 14.73	35.45	−10 38 49.5	3 20.3	0.322402	17 27
16	13 59 39.28	34.59	10 35 29.2	3 15.2	0.323511	17 30
17	13 59 4.69	33.71	10 32 14.0	3 9.8	0.324668	17 33
18	13 58 30.98	32.79	10 29 4.2	3 4.3	0.325873	17 36
19	13 57 58.19	−31.83	10 25 59.9	+2 58.7	0.327125	17 39
20	13 57 26.36	30.85	−10 23 1.2	2 53.0	0.328422	17 42
21	13 56 55.51		10 20 8.2		0.329763	17 45

Opp. in AR. April 26 Größe = 11.2

P. Neugebauer.

(118) PEITHO 1911.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juni 6	18 2 8.95		−30 43 37.9		0.266516	15 21
		−61.24		−2 46.4		
7	18 1 7.71		30 46 24.3		0.265640	15 19
		62.11		2 41.4		
8	18 0 5.60		30 49 5.7		0.264827	15 17
		62.92		2 36.2		
9	17 59 2.68		30 51 41.9		0.264077	15 16
		63.66		2 30.9		
10	17 57 59.02		30 54 12.8		0.263389	15 14
		−64.35		−2 25.5		
11	17 56 54.67		−30 56 38.3		0.262764	15 13
		64.97		2 20.0		
12	17 55 49.70		30 58 58.3		0.262203	15 12
		65.53		2 14.3		
13	17 54 44.17		31 1 12.6		0.261707	15 11
		66.01		2 8.5		
14	17 53 38.16		31 3 21.1		0.261276	15 10
		66.43		2 2.5		
15	17 52 31.73		31 5 23.6		0.260910	15 9
		−66.78		−1 56.3		
16	17 51 24.95		−31 7 19.9		0.260610	15 8
		67.06		1 50.0		
17	17 50 17.89		31 9 9.9		0.260377	15 8
		67.27		1 43.6		
18	17 49 10.62		31 10 53.5		0.260210	15 8
		67.42		1 37.3		
☍ 19	17 48 3.20		31 12 30.8		0.260109	15 7
		67.47		1 31.0		
20	17 46 55.73		31 14 1.8		0.260074	15 7
		−67.46		−1 24.6		
21	17 45 48.27		−31 15 26.4		0.260106	15 7
		67.37		1 18.2		
22	17 44 40.90		31 16 44.6		0.260206	15 8
		67.20		1 11.8		
23	17 43 33.70		31 17 56.4		0.260372	15 8
		66.96		1 5.5		
24	17 42 26.74		31 19 1.9		0.260604	15 8
		66.63		0 59.2		
25	17 41 20.11		31 20 1.1		0.260903	15 9
		−66.23		−0 53.0		
26	17 40 13.88		−31 20 54.1		0.261268	15 10
		65.76		0 46.8		
27	17 39 8.12		31 21 40.9		0.261698	15 11
		65.22		0 40.5		
28	17 38 2.90		31 22 21.4		0.262193	15 12
		64.61		0 34.4		
29	17 36 58.29		31 22 55.8		0.262752	15 13
		63.92		0 28.4		
30	17 35 54.37		31 23 24.2		0.263375	15 14
		−63.16		−0 22.4		
Juli 1	17 34 51.21		−31 23 46.6		0.264060	15 16
		62.33		0 16.5		
2	17 33 48.88		31 24 3.1		0.264806	15 17
		61.45		0 10.6		
3	17 32 47.43		31 24 13.7		0.265613	15 19
		60.51		−0 4.9		
4	17 31 46.92		31 24 18.6		0.266479	15 21
		59.50		+0 0.6		
5	17 30 47.42		31 24 18.0		0.267403	15 23
		−58.45		+0 6.1		
6	17 29 48.97		−31 24 11.9		0.268386	15 25
		57.34		0 11.3		
7	17 28 51.63		31 24 0.6		0.269425	15 27
		56.18		0 16.3		
8	17 27 55.45		31 23 44.3		0.270519	15 29
		54.96		0 21.0		
9	17 27 0.49		31 23 23.3		0.271667	15 32
		53.71		0 25.3		
10	17 26 6.78		31 22 58.0		0.272869	15 34
		−52.40		+0 29.5		
11	17 25 14.38		−31 22 28.5		0.274123	15 37
		51.04		+0 33.1		
12	17 24 23.34		31 21 55.4		0.275427	15 40

Opp. in AR. Juni 19 Gröſse = 11.7

P. Neugebauer.

(13) EGERIA 1911.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ' "	' "		m s
Juni 27	19 56 1.90	−59.67	−43 51 48.3	−7 25.2	0.267470	15 23
28	19 55 2.23	61.09	43 59 13.5	7 15.2	0.266749	15 21
29	19 54 1.14	62.43	44 6 28.7	7 4.7	0.266085	15 20
30	19 52 58.71	63.71	44 13 33.4	6 53.7	0.265478	15 19
Juli 1	19 51 55.00	−64.91	44 20 27.1	−6 42.4	0.264929	15 17
2	19 50 50.09	66.05	−44 27 9.5	6 30.5	0.264437	15 16
3	19 49 44.04	67.11	44 33 40.0	6 18.3	0.264004	15 15
4	19 48 36.93	68.10	44 39 58.3	6 5.7	0.263629	15 15
5	19 47 28.83	69.01	44 46 4.0	5 52.7	0.263313	15 14
6	19 46 19.82	−69.83	44 51 56.7	−5 39.3	0.263057	15 14
7	19 45 9.99	70.59	−44 57 36.0	5 25.5	0.262860	15 13
8	19 43 59.40	71.25	45 3 1.5	5 11.5	0.262723	15 13
9	19 42 48.15	71.83	45 8 13.0	4 57.1	0.262645	15 13
10	19 41 36.32	72.33	45 13 10.1	4 42.4	0.262628	15 13
11	19 40 23.99	−72.74	45 17 52.5	−4 27.5	0.262671	15 13
12	19 39 11.25	73.06	−45 22 20.0	4 12.3	0.262774	15 13
13	19 37 58.19	73.29	45 26 32.3	3 57.0	0.262936	15 13
14	19 36 44.90	73.43	45 30 29.3	3 41.5	0.263157	15 14
☍ 15	19 35 31.47	73.48	45 34 10.8	3 25.8	0.263438	15 14
16	19 34 17.99	−73.45	45 37 36.6	−3 10.0	0.263777	15 15
17	19 33 4.54	73.32	−45 40 46.6	2 54.1	0.264176	15 16
18	19 31 51.22	73.09	45 43 40.7	2 38.2	0.264634	15 17
19	19 30 38.13	72.78	45 46 18.9	2 22.2	0.265151	15 18
20	19 29 25.35	72.36	45 48 41.1	2 6.3	0.265725	15 19
21	19 28 12.99	−71.86	45 50 47.4	−1 50.3	0.266357	15 20
22	19 27 1.13	71.26	−45 52 37.7	1 34.3	0.267045	15 22
23	19 25 49.87	70.58	45 54 12.0	1 18.5	0.267790	15 24
24	19 24 39.29	69.79	45 55 30.5	1 2.6	0.268590	15 25
25	19 23 29.50	68.92	45 56 33.1	0 46.7	0.269445	15 27
26	19 22 20.58	−67.95	45 57 19.8	−0 31.0	0.270354	15 29
27	19 21 12.63	66.90	−45 57 50.8	0 15.6	0.271317	15 31
28	19 20 5.73	65.76	45 58 6.4	0 0.2	0.272333	15 33
29	19 18 59.97		45 58 6.6		0.273402	15 36

Opp. in AR. Juli 15 Gröfse = 10.2

Samter.

(17) THETIS 1911.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juli 8	20h 0m 34s.78	−50s.60	−18° 13′ 59″.4	−5′ 43″.8	0.068847	9m 44s
9	19 59 44.18	51.37	18 19 43.2	5 47.4	0.068238	9 44
10	19 58 52.81	52.08	18 25 30.6	5 50.6	0.067715	9 43
11	19 58 0.73	52.70	18 31 21.2	5 53.4	0.067278	9 42
12	19 57 8.03	−53.26	18 37 14.6	−5 55.9	0.066929	9 42
13	19 56 14.77	53.76	−18 43 10.5	5 57.9	0.066667	9 41
14	19 55 21.01	54.18	18 49 8.4	5 59.4	0.066494	9 41
15	19 54 26.83	54.51	18 55 7.8	6 0.6	0.066410	9 41
16	19 53 32.32	54.75	19 1 8.4	6 1.5	0.066416	9 41
17	19 52 37.57	−54.91	19 7 9.9	−6 2.0	0.066513	9 41
18	19 51 42.66	55.00	−19 13 11.9	6 2.0	0.066701	9 41
☍ 19	19 50 47.66	54.98	19 19 13.9	6 1.7	0.066980	9 42
20	19 49 52.68	54.87	19 25 15.6	6 1.1	0.067351	9 42
21	19 48 57.81	54.67	19 31 16.7	6 0.2	0.067813	9 43
22	19 48 3.14	−54.38	19 37 16.9	−5 58.9	0.068365	9 43
23	19 47 8.76	53.99	−19 43 15.8	5 57.2	0.069008	9 44
24	19 46 14.77	53.52	19 49 13.0	5 55.2	0.069741	9 45
25	19 45 21.25	52.97	19 55 8.2	5 52.8	0.070561	9 47
26	19 44 28.28	52.32	20 1 1.0	5 50.1	0.071470	9 48
27	19 43 35.96	−51.59	20 6 51.1	−5 47.1	0.072467	9 50
28	19 42 44.37	50.79	−20 12 38.2	5 43.9	0.073549	9 51
29	19 41 53.58	49.90	20 18 22.1	5 40.3	0.074716	9 52
30	19 41 3.68	48.92	20 24 2.4	5 36.5	0.075967	9 54
31	19 40 14.76	47.86	20 29 38.9	5 32.4	0.077301	9 56
Aug. 1	19 39 26.90	−46.75	20 35 11.3	−5 28.0	0.078715	9 58
2	19 38 40.15	45.56	−20 40 39.3	5 23.4	0.080207	10 0
3	19 37 54.59	44.30	20 46 2.7	5 18.5	0.081776	10 2
4	19 37 10.29	42.99	20 51 21.2	5 13.4	0.083420	10 4
5	19 36 27.30	41.62	20 56 34.6	5 8.2	0.085137	10 6
6	19 35 45.68	−40.21	21 1 42.8	−5 2.9	0.086925	10 9
7	19 35 5.47	38.74	−21 6 45.7	4 57.4	0.088784	10 12
8	19 34 26.73	37.24	21 11 43.1	4 51.7	0.090712	10 14
9	19 33 49.49	35.70	21 16 34.8	4 45.9	0.092708	10 17
10	19 33 13.79	34.11	21 21 20.7	4 40.1	0.094768	10 20
11	19 32 39.68	−32.48	21 26 0.8	−4 34.1	0.096890	10 23
12	19 32 7.20	30.82	−21 30 34.9	4 28.0	0.099074	10 26
13	19 31 36.38		21 35 2.9		0.101316	10 29

Opp. in AR. Juli 19   Gröfse = 9.3

P. Neugebauer.

(76) FREIA 1911.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juli 16	20 13 23.35	−42.60	−17 4 48.6	−2 8.0	0.457096	23 48
17	20 12 40.75	42.86	17 6 56.6	2 9.3	0.456664	23 46
18	20 11 57.89	43.10	17 9 5.9	2 10.4	0.456275	23 45
19	20 11 14.79	43.28	17 11 16.3	2 11.5	0.455931	23 44
20	20 10 31.51	−43.44	17 13 27.8	−2 12.4	0.455631	23 43
21	20 9 48.07	43.58	−17 15 40.2	2 13.1	0.455375	23 43
22	20 9 4.49	43.68	17 17 53.3	2 13.7	0.455165	23 42
☍ 23	20 8 20.81	43.73	17 20 7.0	2 14.2	0.454999	23 42
24	20 7 37.08	43.74	17 22 21.2	2 14.6	0.454878	23 41
25	20 6 53.34	−43.72	17 24 35.8	−2 14.8	0.454801	23 41
26	20 6 9.62	43.65	−17 26 50.6	2 15.0	0.454769	23 41
27	20 5 25.97	43.55	17 29 5.6	2 15.0	0.454782	23 41
28	20 4 42.42	43.40	17 31 20.6	2 14.9	0.454840	23 41
29	20 3 59.02	43.22	17 33 35.5	2 14.7	0.454942	23 41
30	20 3 15.80	−42.99	17 35 50.2	−2 14.5	0.455090	23 42
31	20 2 32.81	42.73	−17 38 4.7	2 14.1	0.455282	23 42
Aug. 1	20 1 50.08	42.46	17 40 18.8	2 13.6	0.455519	23 43
2	20 1 7.62	42.14	17 42 32.4	2 13.1	0.455799	23 44
3	20 0 25.48	41.78	17 44 45.5	2 12.4	0.456123	23 45
4	19 59 43.70	−41.39	17 46 57.9	−2 11.6	0.456489	23 46
5	19 59 2.31	40.96	−17 49 9.5	2 10.7	0.456898	23 47
6	19 58 21.35	40.51	17 51 20.2	2 9.7	0.457350	23 49
7	19 57 40.84	40.03	17 53 29.9	2 8.7	0.457843	23 51
8	19 57 0.81	39.50	17 55 38.6	2 7.5	0.458379	23 52
9	19 56 21.31	−38.96	17 57 46.1	−2 6.2	0.458955	23 54
10	19 55 42.35	38.39	−17 59 52.3	2 4.9	0.459573	23 56
11	19 55 3.96	37.77	18 1 57.2	2 3.6	0.460231	23 58
12	19 54 26.19	37.14	18 4 0.8	2 2.2	0.460928	24 1
13	19 53 49.05	36.48	18 6 3.0	2 0.6	0.461664	24 3
14	19 53 12.57	−35.80	18 8 3.6	−1 59.1	0.462438	24 6
15	19 52 36.77	35.09	−18 10 2.7	1 57.5	0.463251	24 8
16	19 52 1.68	34.35	18 12 0.2	1 55.8	0.464101	24 11
17	19 51 27.33	33.58	18 13 56.0	1 54.0	0.464987	24 14
18	19 50 53.75	32.80	18 15 50.0	1 52.3	0.465910	24 18
19	19 50 20.95	−31.98	18 17 42.3	−1 50.4	0.466868	24 21
20	19 49 48.97	31.14	−18 19 32.7	1 48.5	0.467860	24 24
21	19 49 17.83		18 21 21.2		0.468887	24 27

Opp. in AR. Juli 23 Gröſse = 12.6

P. Neugebauer.

(28) BELLONA 1911.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juli 16	20 24 34.51	−47.61	−13 42 36.7	−4 31.6	0.342162	18 16
17	20 23 46.90	48.06	13 47 8.3	4 35.2	0.341644	18 15
18	20 22 58.84	48.46	13 51 43.5	4 38.6	0.341180	18 14
19	20 22 10.38	48.81	13 56 22.1	4 41.9	0.340772	18 13
20	20 21 21.57	−49.12	14 1 4.0	−4 44.8	0.340418	18 12
21	20 20 32.45	49.39	−14 5 48.8	4 47.6	0.340120	18 11
22	20 19 43.06	49.60	14 10 36.4	4 50.2	0.339878	18 10
23	20 18 53.46	49.74	14 15 26.6	4 52.4	0.339694	18 10
24	20 18 3.72	49.84	14 20 19.0	4 54.5	0.339566	18 10
☍ 25	20 17 13.88	−49.90	14 25 13.5	−4 56.3	0.339496	18 9
26	20 16 23.98	49.90	−14 30 9.8	4 57.9	0.339483	18 9
27	20 15 34.08	49.84	14 35 7.7	4 59.4	0.339528	18 9
28	20 14 44.24	49.74	14 40 7.1	5 0.6	0.339631	18 10
29	20 13 54.50	49.59	14 45 7.7	5 1.4	0.339791	18 10
30	20 13 4.91	−49.38	14 50 9.1	−5 2.2	0.340009	18 11
31	20 12 15.53	49.13	−14 55 11.3	5 2.6	0.340285	18 11
Aug. 1	20 11 26.40	48.84	15 0 13.9	5 3.0	0.340618	18 12
2	20 10 37.56	48.50	15 5 16.9	5 3.2	0.341006	18 13
3	20 9 49.06	48.12	15 10 20.1	5 3.0	0.341450	18 14
4	20 9 0.94	−47.69	15 15 23.1	−5 2.8	0.341950	18 16
5	20 8 13.25	47.22	−15 20 25.9	5 2.3	0.342504	18 17
6	20 7 26.03	46.70	15 25 28.2	5 1.6	0.343112	18 18
7	20 6 39.33	46.13	15 30 29.8	5 0.6	0.343774	18 20
8	20 5 53.20	45.52	15 35 30.4	4 59.4	0.344490	18 22
9	20 5 7.68	−44.87	15 40 29.8	−4 58.2	0.345260	18 24
10	20 4 22.81	44.20	−15 45 28.0	4 56.9	0.346082	18 26
11	20 3 38.61	43.48	15 50 24.9	4 55.3	0.346954	18 28
12	20 2 55.13	42.72	15 55 20.2	4 53.6	0.347877	18 30
13	20 2 12.41	41.92	16 0 13.8	4 51.8	0.348850	18 33
14	20 1 30.49	−41.10	16 5 5.6	−4 49.7	0.349872	18 36
15	20 0 49.39	40.22	−16 9 55.3	4 47.5	0.350942	18 38
16	20 0 9.17	39.32	16 14 42.8	4 45.3	0.352060	18 41
17	19 59 29.85	38.39	16 19 28.1	4 42.8	0.353224	18 44
18	19 58 51.46	37.42	16 24 10.9	4 40.1	0.354434	18 47
19	19 58 14.04	−36.41	16 28 51.0	−4 37.4	0.355688	18 51
20	19 57 37.63	35.37	−16 33 28.4	4 34.6	0.356986	18 54
21	19 57 2.26		16 38 3.0		0.358326	18 58

Opp. in AR. Juli 25 Gröſse = 10.8

P. Neugebauer.

(71) NIOBE 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juli 20	$20^h 55^m 25^s.82$	$-73^s.18$	$-26° 3' 19''.0$	$+3' 57''.6$	0.205606	$13^m 20^s$
21	20 54 12.64	73.74	25 59 21.4	4 3.2	0.205376	13 20
22	20 52 58.90	74.21	25 55 18.2	4 8.7	0.205220	13 20
23	20 51 44.69	74.59	25 51 9.5	4 14.3	0.205138	13 20
24	20 50 30.10	−74.90	25 46 55.2	+4 20.1	0.205130	13 19
25	20 49 15.20	75.10	−25 42 35.1	4 25.8	0.205198	13 20
26	20 48 0.10	75.23	25 38 9.3	4 31.6	0.205343	13 20
27	20 46 44.87	75.27	25 33 37.7	4 37.4	0.205566	13 20
28	20 45 29.60	75.22	25 29 0.3	4 43.2	0.205866	13 21
29	20 44 14.38	−75.10	25 24 17.1	+4 48.9	0.206242	13 21
30	20 42 59.28	74.90	−25 19 28.2	4 54.6	0.206696	13 22
☍ 31	20 41 44.38	74.61	25 14 33.6	5 0.4	0.207227	13 23
Aug. 1	20 40 29.77	74.23	25 9 33.2	5 6.2	0.207834	13 24
2	20 39 15.54	73.78	25 4 27.0	5 11.8	0.208516	13 26
3	20 38 1.76	−73.26	24 59 15.2	+5 17.6	0.209272	13 27
4	20 36 48.50	72.66	−24 53 57.6	5 23.2	0.210102	13 29
5	20 35 35.84	71.98	24 48 34.4	5 28.6	0.211006	13 30
6	20 34 23.86	71.24	24 43 5.8	5 33.8	0.211983	13 32
7	20 33 12.62	70.42	24 37 32.0	5 38.8	0.213032	13 34
8	20 32 2.20	−69.53	24 31 53.2	+5 43.6	0.214153	13 36
9	20 30 52.67	68.58	−24 26 9.6	5 48.3	0.215346	13 38
10	20 29 44.09	67.57	24 20 21.3	5 53.0	0.216608	13 41
11	20 28 36.52	66.49	24 14 28.3	5 57.4	0.217937	13 43
12	20 27 30.03	65.35	24 8 30.9	6 1.6	0.219334	13 46
13	20 26 24.68	−64.16	24 2 29.3	+6 5.6	0.220797	13 49
14	20 25 20.52	62.93	−23 56 23.7	6 9.6	0.222325	13 52
15	20 24 17.59	61.64	23 50 14.1	6 13.2	0.223916	13 55
16	20 23 15.95	60.29	23 44 0.9	6 16.7	0.225570	13 58
17	20 22 15.66	58.90	23 37 44.2	6 20.0	0.227285	14 1
18	20 21 16.76	−57.46	23 31 24.2	+6 23.2	0.229059	14 5
19	20 20 19.30	55.97	−23 25 1.0	6 26.1	0.230892	14 8
20	20 19 23.33	54.43	23 18 34.9	6 28.8	0.232781	14 12
21	20 18 28.90	52.84	23 12 6.1	6 31.4	0.234725	14 16
22	20 17 36.06	51.20	23 5 34.7	6 33.7	0.236723	14 20
23	20 16 44.86	−49.47	22 59 1.0	+6 35.8	0.238772	14 24
24	20 15 55.39	47.71	−22 52 25.2	6 38.0	0.240872	14 28
25	20 15 7.68		22 45 47.2		0.243020	14 32

Opp. in AR. Juli 31 Gröſse = 10.4

P. Neugebauer.

(108) HECUBA 1911.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Aug. 9	21ʰ 46ᵐ 14ˢ.54	−53ˢ.02	−16° 59′ 24″.3	−3′ 42″.0	0.347969	18ᵐ 31ˢ
10	21 45 21.52	53.31	17 3 6.3	3 40.8	0.347739	18 31
11	21 44 28.21	53.56	17 6 47.1	3 39.3	0.347566	18 30
12	21 43 34.65	53.76	17 10 26.4	3 37.6	0.347451	18 30
13	21 42 40.89	−53.91	17 14 4.0	−3 35.7	0.347394	18 30
14	21 41 46.98	54.02	−17 17 39.7	3 33.5	0.347394	18 30
15	21 40 52.96	54.08	17 21 13.2	3 31.1	0.347453	18 30
☍ 16	21 39 58.88	54.08	17 24 44.3	3 28.5	0.347570	18 30
17	21 39 4.80	54.03	17 28 12.8	3 25.8	0.347745	18 30
18	21 38 10.77	−53.93	17 31 38.6	−3 22.7	0.347978	18 30
19	21 37 16.84	53.78	−17 35 1.3	3 19.4	0.348269	18 31
20	21 36 23.06	53.58	17 38 20.7	3 16.0	0.348618	18 32
21	21 35 29.48	53.33	17 41 36.7	3 12.4	0.349025	18 33
22	21 34 36.15	53.01	17 44 49.1	3 8.5	0.349489	18 34
23	21 33 43.14	−52.64	17 47 57.6	−3 4.4	0.350011	18 36
24	21 32 50.50	52.22	−17 51 2.0	3 0.2	0.350589	18 38
25	21 31 58.28	51.76	17 54 2.2	2 55.8	0.351223	18 39
26	21 31 6.52	51.23	17 56 58.0	2 51.2	0.351913	18 41
27	21 30 15.29	50.66	17 59 49.2	2 46.3	0.352657	18 43
28	21 29 24.63	−50.06	18 2 35.5	−2 41.4	0.353455	18 45
29	21 28 34.57	49.41	−18 5 16.9	2 36.4	0.354307	18 47
30	21 27 45.16	48.72	18 7 53.3	2 31.2	0.355211	18 50
31	21 26 56.44	48.00	18 10 24.5	2 25.9	0.356168	18 52
Sept. 1	21 26 8.44	47.22	18 12 50.4	2 20.4	0.357176	18 55
2	21 25 21.22	−46.42	18 15 10.8	−2 14.9	0.358233	18 57
3	21 24 34.80	45.57	−18 17 25.7	2 9.3	0.359339	19 0
4	21 23 49.23	44.67	18 19 35.0	2 3.7	0.360494	19 3
5	21 23 4.56	43.74	18 21 38.7	1 57.9	0.361695	19 6
6	21 22 20.82	42.80	18 23 36.6	1 52.2	0.362942	19 10
7	21 21 38.02	−41.84	18 25 28.8	−1 46.3	0.364234	19 13
8	21 20 56.18	40.82	−18 27 15.1	1 40.4	0.365571	19 17
9	21 20 15.36	39.78	18 28 55.5	1 34.6	0.366951	19 20
10	21 19 35.58	38.71	18 30 30.1	1 28.6	0.368372	19 24
11	21 18 56.87	37.60	18 31 58.7	1 22.6	0.369834	19 28
12	21 18 19.27	−36.46	18 33 21.3	−1 16.6	0.371336	19 32
13	21 17 42.81	35.29	−18 34 37.9	1 10.5	0.372877	19 36
14	21 17 7.52		18 35 48.4		0.374457	19 41

Opp. in AR. Aug. 16 Größe = 11.7

P. Neugebauer.

(53) KALYPSO 1911.

12^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
		h m s	s	° ′ ″	′ ″		m s
Sept.	14	0 14 24.47	−45.92	−3 31 2.0	−7 24.9	0.198236	13 7
	15	0 13 38.55	46.62	3 38 26.9	7 26.9	0.197070	13 5
	16	0 12 51.93	47.30	3 45 53.8	7 28.5	0.195976	13 3
	17	0 12 4.63	47.90	3 53 22.3	7 29.5	0.194954	13 1
	18	0 11 16.73	−48.43	4 0 51.8	−7 30.0	0.194006	12 59
	19	0 10 28.30	48.91	−4 8 21.8	7 30.1	0.193131	12 58
	20	0 9 39.39	49.34	4 15 51.9	7 29.6	0.192331	12 56
	21	0 8 50.05	49.70	4 23 21.5	7 28.6	0.191606	12 55
	22	0 8 0.35	49.98	4 30 50.1	7 27.0	0.190957	12 54
	23	0 7 10.37	−50.20	4 38 17.1	−7 25.0	0.190383	12 53
	24	0 6 20.17	50.36	−4 45 42.1	7 22.4	0.189886	12 52
	25	0 5 29.81	50.45	4 53 4.5	7 19.2	0.189467	12 51
	☍ 26	0 4 39.36	50.47	5 0 23.7	7 15.6	0.189126	12 51
	27	0 3 48.89	50.43	5 7 39.3	7 11.5	0.188862	12 50
	28	0 2 58.46	−50.32	5 14 50.8	−7 6.8	0.188675	12 50
	29	0 2 8.14	50.14	−5 21 57.6	7 1.8	0.188565	12 50
	30	0 1 18.00	49.90	5 28 59.4	6 56.2	0.188532	12 50
Okt.	1	0 0 28.10	49.59	5 35 55.6	6 50.2	0.188574	12 50
	2	23 59 38.51	49.20	5 42 45.8	6 43.8	0.188693	12 50
	3	23 58 49.31	−48.77	5 49 29.6	−6 37.0	0.188887	12 50
	4	23 58 0.54	48.28	−5 56 6.6	6 29.7	0.189155	12 51
	5	23 57 12.26	47.73	6 2 36.3	6 22.0	0.189497	12 51
	6	23 56 24.53	47.12	6 8 58.3	6 13.9	0.189912	12 52
	7	23 55 37.41	46.47	6 15 12.2	6 5.4	0.190400	12 53
	8	23 54 50.94	−45.75	6 21 17.6	−5 56.6	0.190960	12 54
	9	23 54 5.19	44.97	−6 27 14.2	5 47.4	0.191590	12 55
	10	23 53 20.22	44.11	6 33 1.6	5 37.9	0.192290	12 56
	11	23 52 36.11	43.21	6 38 39.5	5 28.1	0.193058	12 58
	12	23 51 52.90	42.27	6 44 7.6	5 17.9	0.193894	12 59
	13	23 51 10.63	−41.28	6 49 25.5	−5 7.5	0.194795	13 1
	14	23 50 29.35	40.23	−6 54 33.0	4 56.9	0.195761	13 2
	15	23 49 49.12	39.14	6 59 29.9	4 45.9	0.196791	13 4
	16	23 49 9.98	38.00	7 4 15.8	4 34.7	0.197884	13 6
	17	23 48 31.98	36.81	7 8 50.5	4 23.3	0.199038	13 8
	18	23 47 55.17	−35.57	7 13 13.8	−4 11.8	0.200251	13 11
	19	23 47 19.60	34.30	−7 17 25.6	4 0.0	0.201523	13 13
	20	23 46 45.30		7 21 25.6		0.202851	13 15

Opp. in AR. Sept. 26 Gröſse = 11.4

P. Neugebauer.

(47) AGLAJA 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Okt. 8	1 36 54.65	−51.43	+12 47 32.5	−2 47.0	0.233236	14 13
9	1 36 3.22	51.88	12 44 45.5	2 51.7	0.232923	14 13
10	1 35 11.34	52.26	12 41 53.8	2 56.1	0.232679	14 12
11	1 34 19.08	52.57	12 38 57.7	3 0.3	0.232505	14 12
12	1 33 26.51	−52.83	12 35 57.4	−3 4.2	0.232400	14 11
13	1 32 33.68	53.02	+12 32 53.2	3 7.8	0.232366	14 11
14	1 31 40.66	53.16	12 29 45.4	3 11.2	0.232403	14 11
15	1 30 47.50	53.24	12 26 34.2	3 14.2	0.232511	14 11
16	1 29 54.26	53.24	12 23 20.0	3 16.9	0.232692	14 12
17	1 29 1.02	−53.17	12 20 3.1	−3 19.3	0.232944	14 12
☍ 18	1 28 7.85	53.05	+12 16 43.8	3 21.3	0.233268	14 13
19	1 27 14.80	52.86	12 13 22.5	3 22.9	0.233665	14 14
20	1 26 21.94	52.60	12 9 59.6	3 24.2	0.234134	14 15
21	1 25 29.34	52.28	12 6 35.4	3 25.2	0.234674	14 16
22	1 24 37.06	−51.88	12 3 10.2	−3 25.9	0.235284	14 17
23	1 23 45.18	51.42	+11 59 44.3	3 26.2	0.235966	14 18
24	1 22 53.76	50.92	11 56 18.1	3 26.2	0.236718	14 20
25	1 22 2.84	50.35	11 52 51.9	3 25.7	0.237540	14 21
26	1 21 12.49	49.70	11 49 26.2	3 25.0	0.238431	14 23
27	1 20 22.79	−49.02	11 46 1.2	−3 23.8	0.239391	14 25
28	1 19 33.77	48.28	+11 42 37.4	3 22.4	0.240418	14 27
29	1 18 45.49	47.48	11 39 15.0	3 20.7	0.241511	14 29
30	1 17 58.01	46.62	11 35 54.3	3 18.5	0.242669	14 32
31	1 17 11.39	45.72	11 32 35.8	3 16.1	0.243892	14 34
Nov. 1	1 16 25.67	−44.79	11 29 19.7	−3 13.3	0.245178	14 37
2	1 15 40.88	43.81	+11 26 6.4	3 10.3	0.246526	14 39
3	1 14 57.07	42.77	11 22 56.1	3 6.9	0.247934	14 42
4	1 14 14.30	41.69	11 19 49.2	3 3.3	0.249401	14 45
5	1 13 32.61	40.59	11 16 45.9	2 59.2	0.250926	14 48
6	1 12 52.02	−39.45	11 13 46.7	−2 55.0	0.252508	14 52
7	1 12 12.57	38.27	+11 10 51.7	2 50.6	0.254146	14 55
8	1 11 34.30	37.06	11 8 1.1	2 45.9	0.255838	14 59
9	1 10 57.24	35.83	11 5 15.2	2 41.0	0.257583	15 2
10	1 10 21.41	34.57	11 2 34.2	2 36.1	0.259379	15 6
11	1 9 46.84	−33.27	10 59 58.1	−2 31.0	0.261225	15 10
12	1 9 13.57	31.93	+10 57 27.1	2 25.6	0.263120	15 14
13	1 8 41.64		10 55 1.5		0.265064	15 18

Opp. in AR. Okt. 18 Gröfse = 10.8

P. Neugebauer.

(90) ANTIOPE 1911.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Okt. 8	1ʰ 50ᵐ 6ˢ.88	−44ˢ.76	+8° 42′ 52″.2	−3′ 52″.7	0.300622	16ᵐ 36ˢ
9	1 49 22.12	45.26	8 38 59.5	3 54.5	0.300294	16 35
10	1 48 36.86	45.71	8 35 5.0	3 56.0	0.300026	16 35
11	1 47 51.15	46.11	8 31 9.0	3 57.2	0.299820	16 34
12	1 47 5.04	−46.46	8 27 11.8	−3 58.2	0.299675	16 34
13	1 46 18.58	46.76	+8 23 13.6	3 59.0	0.299591	16 34
14	1 45 31.82	47.01	8 19 14.6	3 59.5	0.299570	16 34
15	1 44 44.81	47.21	8 15 15.1	3 59.7	0.299612	16 34
16	1 43 57.60	47.34	8 11 15.4	3 59.6	0.299716	16 34
17	1 43 10.26	−47.43	8 7 15.8	−3 59.3	0.299884	16 34
18	1 42 22.83	47.46	+8 3 16.5	3 58.6	0.300114	16 35
19	1 41 35.37	47.44	7 59 17.9	3 57.7	0.300407	16 35
20	1 40 47.93	47.36	7 55 20.2	3 56.5	0.300763	16 36
☍ 21	1 40 0.57	47.23	7 51 23.7	3 54.9	0.301182	16 37
22	1 39 13.34	−47.04	7 47 28.8	−3 53.0	0.301664	16 38
23	1 38 26.30	46.81	+7 43 35.8	3 50.8	0.302212	16 40
24	1 37 39.49	46.52	7 39 45.0	3 48.4	0.302822	16 41
25	1 36 52.97	46.19	7 35 56.6	3 45.8	0.303494	16 42
26	1 36 6.78	45.80	7 32 10.8	3 42.7	0.304228	16 44
27	1 35 20.98	−45.35	7 28 28.1	−3 39.4	0.305021	16 46
28	1 34 35.63	44.87	+7 24 48.7	3 35.9	0.305874	16 48
29	1 33 50.76	44.34	7 21 12.8	3 32.0	0.306787	16 50
30	1 33 6.42	43.75	7 17 40.8	3 27.9	0.307759	16 53
31	1 32 22.67	43.12	7 14 12.9	3 23.6	0.308790	16 55
Nov. 1	1 31 39.55	−42.44	7 10 49.3	−3 19.0	0.309879	16 58
2	1 30 57.11	41.73	+7 7 30.3	3 14.2	0.311024	17 0
3	1 30 15.38	40.99	7 4 16.1	3 9.2	0.312224	17 3
4	1 29 34.39	40.19	7 1 6.9	3 3.9	0.313477	17 6
5	1 28 54.20	39.36	6 58 3.0	2 58.6	0.314784	17 9
6	1 28 14.84	−38.51	6 55 4.4	−2 52.9	0.316144	17 12
7	1 27 36.33	37.62	+6 52 11.5	2 47.1	0.317556	17 16
8	1 26 58.71	36.69	6 49 24.4	2 41.1	0.319018	17 19
9	1 26 22.02	35.74	6 46 43.3	2 35.1	0.320530	17 23
10	1 25 46.28	34.75	6 44 8.2	2 28.8	0.322090	17 27
11	1 25 11.53	−33.74	6 41 39.4	−2 22.4	0.323696	17 30
12	1 24 37.79	32.70	+6 39 17.0	2 16.0	0.325348	17 34
13	1 24 5.09		6 37 1.0		0.327046	17 39

Opp. in AR. Okt. 21 Größe = 11.4

P. Neugebauer.

(37) FIDES 1911.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Okt. 12	1 54 26.24	−52.14	+13 31 17.5	−2 37.3	0.106706	10 37
13	1 53 34.10	52.80	13 28 40.2	2 43.5	0.105516	10 36
14	1 52 41.30	53.40	13 25 56.7	2 49.3	0.104410	10 34
15	1 51 47.90	53.94	13 23 7.4	2 54.7	0.103388	10 33
16	1 50 53.96	−54.42	13 20 12.7	−2 59.8	0.102452	10 31
17	1 49 59.54	54.83	+13 17 12.9	3 4.4	0.101602	10 30
18	1 49 4.71	55.17	13 14 8.5	3 8.7	0.100839	10 29
19	1 48 9.54	55.44	13 10 59.8	3 12.7	0.100164	10 28
20	1 47 14.10	55.65	13 7 47.1	3 16.1	0.099578	10 27
21	1 46 18.45	−55.77	13 4 31.0	−3 19.2	0.099082	10 26
☍ 22	1 45 22.68	55.82	+13 1 11.8	3 22.0	0.098675	10 26
23	1 44 26.86	55.79	12 57 49.8	3 24.2	0.098359	10 25
24	1 43 31.07	55.68	12 54 25.6	3 26.0	0.098132	10 25
25	1 42 35.39	55.48	12 50 59.6	3 27.4	0.097996	10 25
26	1 41 39.91	−55.19	12 47 32.2	−3 28.4	0.097952	10 25
27	1 40 44.72	54.84	+12 44 3.8	3 28.9	0.097998	10 25
28	1 39 49.88	54.40	12 40 34.9	3 29.0	0.098136	10 25
29	1 38 55.48	53.87	12 37 5.9	3 28.6	0.098362	10 25
30	1 38 1.61	53.25	12 33 37.3	3 27.8	0.098677	10 26
31	1 37 8.36	−52.57	12 30 9.5	−3 26.6	0.099082	10 26
Nov. 1	1 36 15.79	51.80	+12 26 42.9	3 25.0	0.099575	10 27
2	1 35 23.99	50.93	12 23 17.9	3 22.9	0.100153	10 28
3	1 34 33.06	49.99	12 19 55.0	3 20.3	0.100817	10 29
4	1 33 43.07	48.98	12 16 34.7	3 17.4	0.101565	10 30
5	1 32 54.09	−47.89	12 13 17.3	−3 14.2	0.102397	10 31
6	1 32 6.20	46.73	+12 10 3.1	3 10.5	0.103311	10 33
7	1 31 19.47	45.52	12 6 52.6	3 6.4	0.104305	10 34
8	1 30 33.95	44.25	12 3 46.2	3 2.1	0.105378	10 35
9	1 29 49.70	42.94	12 0 44.1	2 57.4	0.106529	10 37
10	1 29 6.76	−41.58	11 57 46.7	−2 52.2	0.107757	10 39
11	1 28 25.18	40.18	+11 54 54.5	2 46.7	0.109059	10 41
12	1 27 45.00	38.72	11 52 7.8	2 40.9	0.110435	10 43
13	1 27 6.28	37.19	11 49 26.9	2 34.9	0.111883	10 45
14	1 26 29.09	35.62	11 46 52.0	2 28.4	0.113401	10 47
15	1 25 53.47	−34.02	11 44 23.6	−2 21.6	0.114988	10 50
16	1 25 19.45	32.38	+11 42 2.0	2 14.4	0.116642	10 52
17	1 24 47.07		11 39 47.6		0.118360	10 55

Opp. in AR. Okt. 22 Gröfse = 9.5

P. Neugebauer.

(241) GERMANIA 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Okt. 16	2h 26m 19s.50	−45s.31	+21° 53′ 4″.0	−3′ 46″.1	0.271517	15m 31s
17	2 25 34.19	46.00	21 49 17.9	3 54.2	0.270759	15 30
18	2 24 48.19	46.64	21 45 23.7	4 2.3	0.270062	15 28
19	2 24 1.55	47.21	21 41 21.4	4 10.0	0.269427	15 27
20	2 23 14.34	−47.72	21 37 11.4	−4 17.7	0.268854	15 26
21	2 22 26.62	48.18	+21 32 53.7	4 24.9	0.268344	15 25
22	2 21 38.44	48.57	21 28 28.8	4 32.1	0.267898	15 24
23	2 20 49.87	48.90	21 23 56.7	4 38.9	0.267518	15 23
24	2 20 0.97	49.17	21 19 17.8	4 45.4	0.267203	15 22
25	2 19 11.80	−49.38	21 14 32.4	−4 51.7	0.266953	15 22
26	2 18 22.42	49.51	+21 9 40.7	4 57.6	0.266771	15 21
27	2 17 32.91	49.60	21 4 43.1	5 3.2	0.266654	15 21
28	2 16 43.31	49.61	20 59 39.9	5 8.6	0.266605	15 21
29	2 15 53.70	49.56	20 54 31.3	5 13.5	0.266623	15 21
☍ 30	2 15 4.14	−49.46	20 49 17.8	−5 18.2	0.266708	15 21
31	2 14 14.68	49.28	+20 43 59.6	5 22.5	0.266860	15 21
Nov. 1	2 13 25.40	49.06	20 38 37.1	5 26.4	0.267080	15 22
2	2 12 36.34	48.77	20 33 10.7	5 30.0	0.267367	15 23
3	2 11 47.57	48.42	20 27 40.7	5 33.2	0.267720	15 23
4	2 10 59.15	−48.02	20 22 7.5	−5 36.1	0.268140	15 24
5	2 10 11.13	47.56	+20 16 31.4	5 38.6	0.268626	15 25
6	2 9 23.57	47.06	20 10 52.8	5 40.8	0.269179	15 26
7	2 8 36.51	46.49	20 5 12.0	5 42.5	0.269796	15 28
8	2 7 50.02	45.88	19 59 29.5	5 44.0	0.270479	15 29
9	2 7 4.14	−45.21	19 53 45.5	−5 45.0	0.271226	15 31
10	2 6 18.93	44.50	+19 48 0.5	5 45.8	0.272037	15 32
11	2 5 34.43	43.72	19 42 14.7	5 46.0	0.272912	15 34
12	2 4 50.71	42.91	19 36 28.7	5 45.9	0.273849	15 36
13	2 4 7.80	42.05	19 30 42.8	5 45.5	0.274848	15 39
14	2 3 25.75	−41.13	19 24 57.3	−5 44.6	0.275908	15 41
15	2 2 44.62	40.18	+19 19 12.7	5 43.3	0.277029	15 43
16	2 2 4.44	39.17	19 13 29.4	5 41.7	0.278209	15 46
17	2 1 25.27	38.13	19 7 47.7	5 39.7	0.279447	15 49
18	2 0 47.14	37.03	19 2 8.0	5 37.3	0.280743	15 51
19	2 0 10.11	−35.91	18 56 30.7	−5 34.5	0.282095	15 54
20	1 59 34.20	34.74	+18 50 56.2	5 31.3	0.283503	15 57
21	1 58 59.46		18 45 24.9		0.284963	16 1

Opp. in AR. Okt. 30 Gröſse = 10.8

W. Luther.

(26) PROSERPINA 1911.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Okt. 28	3 14 34.59	−53.02	+17 59 3.2	−2 19.4	0.281851	15 54
29	3 13 41.57	53.71	17 56 43.8	2 22.8	0.281071	15 52
30	3 12 47.86	54.36	17 54 21.0	2 26.0	0.280354	15 51
31	3 11 53.50	54.95	17 51 55.0	2 29.1	0.279700	15 49
Nov. 1	3 10 58.55	−55.48	17 49 25.9	−2 32.0	0.279110	15 48
2	3 10 3.07	55.95	+17 46 53.9	2 34.8	0.278585	15 47
3	3 9 7.12	56.37	17 44 19.1	2 37.5	0.278125	15 46
4	3 8 10.75	56.72	17 41 41.6	2 40.1	0.277731	15 45
5	3 7 14.03	57.02	17 39 1.5	2 42.4	0.277403	15 44
6	3 6 17.01	−57.25	17 36 19.1	−2 44.5	0.277141	15 44
7	3 5 19.76	57.44	+17 33 34.6	2 46.4	0.276947	15 43
8	3 4 22.32	57.56	17 30 48.2	2 48.2	0.276821	15 43
9	3 3 24.76	57.61	17 28 0.0	2 49.6	0.276763	15 43
10	3 2 27.15	57.61	17 25 10.4	2 51.0	0.276773	15 43
☍ 11	3 1 29.54	−57.54	17 22 19.4	−2 52.0	0.276851	15 43
12	3 0 32.00	57.40	+17 19 27.4	2 52.7	0.276997	15 43
13	2 59 34.60	57.20	17 16 34.7	2 53.3	0.277211	15 44
14	2 58 37.40	56.94	17 13 41.4	2 53.6	0.277493	15 45
15	2 57 40.46	56.61	17 10 47.8	2 53.6	0.277844	15 45
16	2 56 43.85	−56.22	17 7 54.2	−2 53.4	0.278264	15 46
17	2 55 47.63	55.77	+17 5 0.8	2 53.0	0.278751	15 47
18	2 54 51.86	55.25	17 2 7.8	2 52.1	0.279305	15 48
19	2 53 56.61	54.66	16 59 15.7	2 51.0	0.279925	15 50
20	2 53 1.95	54.02	16 56 24.7	2 49.7	0.280611	15 51
21	2 52 7.93	−53.33	16 53 35.0	−2 48.2	0.281363	15 53
22	2 51 14.60	52.58	+16 50 46.8	2 46.2	0.282179	15 55
23	2 50 22.02	51.76	16 48 0.6	2 44.0	0.283058	15 57
24	2 49 30.26	50.89	16 45 16.6	2 41.7	0.283999	15 59
25	2 48 39.37	49.98	16 42 34.9	2 39.0	0.285003	16 1
26	2 47 49.39	−49.03	16 39 55.9	−2 36.2	0.286067	16 3
27	2 47 0.36	48.02	+16 37 19.7	2 33.0	0.287189	16 6
28	2 46 12.34	46.98	16 34 46.7	2 29.5	0.288369	16 8
29	2 45 25.36	45.90	16 32 17.2	2 26.0	0.289607	16 11
30	2 44 39.46	44.76	16 29 51.2	2 22.2	0.290900	16 14
Dez. 1	2 43 54.70	−43.58	16 27 29.0	−2 18.2	0.292247	16 17
2	2 43 11.12	42.38	+16 25 10.8	2 13.8	0.293647	16 20
3	2 42 28.74		16 22 57.0		0.295100	16 23

Opp. in AR. Nov. 11 Gröfse = 11.0

P. Neugebauer.

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12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Nov. 1	4h 8m 37s.61	−43s.50	+15° 19′ 31″.9	−2′ 29″.1	0.353679	18m 45s
2	4 7 54.11	44.49	15 17 2.8	2 30.1	0.352348	18 42
3	4 7 9.62	45.45	15 14 32.7	2 31.0	0.351064	18 39
4	4 6 24.17	46.36	15 12 1.7	2 32.0	0.349829	18 36
5	4 5 37.81	−47.24	15 9 29.7	−2 32.6	0.348644	18 32
6	4 4 50.57	48.09	+15 6 57.1	2 33.3	0.347510	18 29
7	4 4 2.48	48.90	15 4 23.8	2 33.9	0.346427	18 27
8	4 3 13.58	49.65	15 1 49.9	2 34.2	0.345397	18 24
9	4 2 23.93	50.38	14 59 15.7	2 34.5	0.344420	18 22
10	4 1 33.55	−51.05	14 56 41.2	−2 34.6	0.343498	18 19
11	4 0 42.50	51.68	+14 54 6.6	2 34.6	0.342631	18 17
12	3 59 50.82	52.27	14 51 32.0	2 34.5	0.341821	18 15
13	3 58 58.55	52.80	14 48 57.5	2 34.2	0.341067	18 13
14	3 58 5.75	53.28	14 46 23.3	2 33.7	0.340371	18 11
15	3 57 12.47	−53.71	14 43 49.6	−2 33.1	0.339734	18 10
16	3 56 18.76	54.08	+14 41 16.5	2 32.3	0.339156	18 8
17	3 55 24.68	54.40	14 38 44.2	2 31.3	0.338637	18 7
18	3 54 30.28	54.67	14 36 12.9	2 30.1	0.338178	18 6
19	3 53 35.61	54.87	14 33 42.8	2 28.9	0.337780	18 5
20	3 52 40.74	−55.02	14 31 13.9	−2 27.3	0.337443	18 4
21	3 51 45.72	55.11	+14 28 46.6	2 25.7	0.337167	18 3
☍ 22	3 50 50.61	55.15	14 26 20.9	2 23.8	0.336953	18 3
23	3 49 55.46	55.13	14 23 57.1	2 21.8	0.336800	18 2
24	3 49 0.33	55.05	14 21 35.3	2 19.6	0.336708	18 2
25	3 48 5.28	−54.90	14 19 15.7	−2 17.2	0.336677	18 2
26	3 47 10.38	54.72	+14 16 58.5	2 14.6	0.336708	18 2
27	3 46 15.66	54.47	14 14 43.9	2 12.0	0.336800	18 3
28	3 45 21.19	54.16	14 12 31.9	2 9.1	0.336952	18 3
29	3 44 27.03	53.81	14 10 22.8	2 6.0	0.337165	18 3
30	3 43 33.22	−53.39	14 8 16.8	−2 2.9	0.337438	18 4
Dez. 1	3 42 39.83	52.94	+14 6 13.9	1 59.6	0.337770	18 5
2	3 41 46.89	52.43	14 4 14.3	1 56.0	0.338161	18 6
3	3 40 54.46	51.87	14 2 18.3	1 52.5	0.338611	18 7
4	3 40 2.59	51.26	14 0 25.8	1 48.6	0.339118	18 8
5	3 39 11.33	−50.61	13 58 37.2	−1 44.8	0.339682	18 10
6	3 38 20.72	49.91	+13 56 52.4	1 40.7	0.340303	18 11
7	3 37 30.81		13 55 11.7		0.340979	18 13

Opp. in AR. Nov. 22 Gröſse = 13.3

W. Luther.

NACHWEISUNGEN ÜBER DIE KLEINEN PLANETEN (1) – (691).

Zur genaueren Bezeichnung derjenigen Stellen, an welchen die betreffenden Mitteilungen über die kleinen Planeten sich befinden, sind bei sämtlichen hier benutzten Zeitschriften, nämlich bei den Astronomischen Nachrichten (A. N.), dem Bulletin Astronomique (B. A.), dem Astronomical Journal (A. J.), den Monthly Notices (M. N.), den Lick Observatory Bulletins (L. B.), den Transvaal Observatory Circulars (T. C.) die Band- und Seitenzahlen angegeben.

A. Beobachtungen.

Angaben über genäherte Positionen und Ephemeridenkorrektionen sind durch ein Sternchen neben der Jahreszahl gekennzeichnet.

Nr. und Name	Beobachtungsort	Opposition	Publikation
1 Ceres	Toulouse . .	1909	B. A. 27, 173
	Marseille . .	»	» » 27, 357
2 Pallas	Genf . . .	»	A. N. 183, 141
	Nizza . . .	»	B. A. 27, 34
	Toulouse . .	»	» » 27, 173
	Marseille . .	»	» » 27, 357
3 Juno	Columbus . .	1908	A. N. 182, 387
	Greenwich . .	»	M. N. 70, 248
	Marseille . .	»	B. A. 27, 66
	Heidelberg . .	1909*	A. N. 183, 191
	Nizza . . .	1909/10	B. A. 27, 360
4 Vesta	Columbus . .	1908	A. N. 182, 387
	Nizza . . .	1909	B. A. 27, 34
	Toulouse . .	»	» » 27, 173
	Marseille . .	»	» » 27, 356
6 Hebe	Nizza . . .	1910	» » 27, 360
	Heidelberg . .	1910*	A. N. 183, 427
7 Iris	Nizza . . .	1909	B. A. 27, 35
	Tokio . . .	»	A. N. 184, 343
	Heidelberg . .	1910*	» » 186, 32
8 Flora	Greenwich . .	1908	M. N. 70, 247
	Paris . . .	»	B. A. 27, 161, 165
	Düsseldorf . .	1909	A. N. 184, 61
	Paris . . .	»	B. A. 27, 130
	Wien . . .	»	A. N. 184, 321
	Poughkeepsie .	»	A. J. 26, 136
	Nizza . . .	»	B. A. 27, 360
	des Moines . .	1909/10	A. N. 185, 325

Nr. und Name	Beobachtungsort	Opposition	Publikation
9 Metis	Heidelberg . .	1910*	A. N. 183, 312
	Taunton . .	»	» » 184, 71
	Nizza . . .	1910	B. A. 27, 361
10 Hygiea	Nizza . . .	»	» » 27, 361
11 Parthenope	Columbus . .	1908	A. N. 182, 387
	Düsseldorf . .	1909	» » 184, 61
	Nizza . . .	»	B. A. 27, 362
12 Victoria	Nizza . . .	1910	» » 27, 362
13 Egeria	Düsseldorf . .	1910*	A. N. 184, 85
	Heidelberg . .	»	» » 184, 99, 100, 175
	Paris . . .	»	B. A. 27, 270
	Nizza . . .	»	» » 27, 362
14 Irene	Nizza . . .	1909	» » 27, 35
	Marseille . .	»	» » 27, 66
15 Eunomia	Nizza . . .	»	» » 27, 36
	Nizza . . .	1910	» » 27, 362
16 Psyche	Tokio . . .	1909	A. N. 184, 343
17 Thetis	Greenwich . .	1908	M. N. 70, 248
	Besançon . .	»	B. A. 27, 89
			A. N. 184, 165
	Düsseldorf . .	1910*	» » 183, 311
	Paris . . .	1910	B. A. 27, 269
19 Fortuna	Greenwich . .	1908	M. N. 70, 247
	Genf . . .	1909	A. N. 183, 141
	Paris . . .	»	B. A. 27, 39
	Ann Arbor . .	»	A. J. 26, 82
	Marseille . .	»	B. A. 27, 160
20 Massalia	Nizza . . .	1910	» » 27, 363
21 Lutetia	Heidelberg . .	1909*	A. N. 182, 374
22 Kalliope	Washington .	1909	A. J. 26, 41
	Kopenhagen .	»	A. N. 183, 333
23 Thalia	Marseille . .	»	B. A. 27, 30
	Nizza . . .	»	» » 27, 36
	Marseille . .	»	» » 27, 66
24 Themis	Greenwich . .	1908	M. N. 70, 246
	Düsseldorf . .	1909	A. N. 184, 61
	Tokio . . .	»	» » 184, 343
25 Phocaea	Nizza . . .	»	B. A. 27, 36
26 Proserpina	Zòsè . . .	1907	A. N. 185, 65
	Greenwich . .	1907/08	M. N. 70, 245
	Düsseldorf . .	1909	A. N. 184, 61
	Marseille . .	»	B. A. 27, 30
	Heidelberg . .	1910*	A. N. 185, 275
27 Euterpe	Marseille . .	1909	B. A. 27, 30
	Tokio	»	A. N. 184, 343

Nr. und Name	Beobachtungsort	Opposition	Publikation
28 Bellona	Washington .	1908	A. J. 26, 40
	Greenwich . .	»	M. N. 70, 248
	Zòsè . . .	»	A. N. 185, 67
	Heidelberg . .	1910*	» » 184, 349
	Taunton . .	»	» » 184, 364, 185, 141
29 Amphitrite	Düsseldorf . .	1909	» » 184, 63
	Heidelberg . .	1909/10*	» » 184, 85, 99
	Nizza . . .	1909/10	B. A. 27, 363
30 Urania	Heidelberg . .	1909*	A. N. 182, 373
32 Pomona	Heidelberg . .	1910*	» » 183, 311, 312
35 Leukothea	Heidelberg . .	1909*	» » 182, 334
	Paris . . .	1909	B. A. 27, 129
37 Fides	Greenwich . .	1908	M. N. 70, 245
	Düsseldorf . .	1909	A. N. 184, 63
	Cincinnati . .	»	A. J. 26, 83
	Tokio . . .	»	A. N. 184, 343
39 Laetitia	Washington .	1908	A. J. 26, 39
	Nizza . . .	1909	B. A. 27, 364
42 Isis	Washington .	»	A. J. 26, 41
43 Ariadne	Zòsè . . .	1907	A. N. 185, 65
	Washington .	1909	A. J. 26, 41
	Kopenhagen .	1910*	A. N. 186, 32
44 Nysa	Padua*) . .	1907	» » 184, 207
	Nizza . . .	1909	B. A. 27, 37
45 Eugenia	Heidelberg . .	1910*	A. N. 183, 428
	Taunton . .	»	» » 184, 71
46 Hestia	Greenwich . .	1908	M. N. 70, 246
	Zòsè . . .	»	A. N. 185, 67
	Nizza . . .	1909	B. A. 26, 417
	Ann Arbor . .	»	A. J. 26, 82
47 Aglaja	Greenwich . .	1908	M. N. 70, 246
48 Doris	Wien . . .	1909	A. N. 184, 321
50 Virginia = [1909 *IC*] .	Rom . . .	»	» » 183, 111
	Greenwich . .	»	» » 184, 71
	Cincinnati . .	»	A. J. 26, 83
	Wien . . .	»	A. N. 184, 321
51 Nemausa	Nizza . . .	»	B. A. 27, 37
53 Kalypso	Zòsè . . .	1907	A. N. 185, 65
55 Pandora	Heidelberg . .	1910*	» » 183, 295
57 Mnemosyne	Greenwich . .	1908	M. N. 70, 248
	Besançon . .	»	B. A. 27, 89
			A. N. 184, 165
	Paris . . .	»	B. A. 27, 162, 165
	Paris . . .	1909	» » 27, 40
	Düsseldorf . . .	»	A. N. 184, 63

*) In A. N. 177, 361 mit (287) Nephthys bezeichnet.

Nr. und Name	Beobachtungsort	Opposition	Publikation
57 Mnemosyne	Mundenheim .	1909	A. N. 184, 167
	Kopenhagen .	»	» » 185, 1
	Santiago de Chile	»	» » 185, 51
58 Concordia	Düsseldorf . .	»	» » 184, 63
		1910*	» » 185, 295
63 Ausonia.	Kopenhagen .	1909	» » 183, 331
64 Angelina	Kopenhagen .	»	» » 183, 331
65 Cybele	Besançon . .	1908	» » 184, 165
			B. A. 27, 89
	Paris . . .	1909	» » 27, 130
67 Asia.	Kopenhagen .	1910*	A. N. 185, 31
68 Leto	Heidelberg . .	1909*	» » 183, 15, 16, 191
	Düsseldorf . .	1909	» » 184, 63
	Cincinnati . .	»	A. J. 26, 83
	Paris . . .	»	B. A. 27, 130
	Mundenheim .	»	A. N. 184, 167
	Kasan . . .	»	» » 185, 21
70 Panopaea	Taunton . .	1909*	» » 183, 335
71 Niobe	Zôsè	1907	» » 185, 65
	Düsseldorf . .	1910*	» » 183, 311
	Paris . . .	1910	B. A. 27, 269
74 Galatea	Heidelberg . .	1910*	A. N. 183, 295
78 Diana	Rom . . .	1908	» » 183, 225
79 Eurynome	Washington .	»	A. J. 26, 39
	Greenwich . .	»	M. N. 70, 248
	Heidelberg . .	1909*	A. N. 182, 373, 374
	Genf . . .	1909	» » 183, 141
	Düsseldorf . .	»	» » 184, 63
	Cincinnati . .	»	A. J. 26, 83
	Paris . . .	»	B. A. 27, 129
	Mundenheim .	»	A. N. 184, 167
	Kasan . . .	»	» » 185, 21
	Santiago de Chile	»	» » 185, 51
	Poughkeepsie .	»	A. J. 26, 136
	Nizza	»	B. A. 27, 364
82 Alkmene	Paris . . .	»	» » 27, 40
84 Klio	Heidelberg . .	1909*	A. N. 183, 191
	Düsseldorf . .	1909	» » 184, 63
	Paris . . .	»	B. A. 27, 130
	Kopenhagen .	»	A. N. 185, 3
86 Semele	Heidelberg . .	1909*	» » 183, 16
	Kopenhagen .	1909	» » 185, 3
89 Julia	Kopenhagen .	»	» » 183, 331
91 Aegina	Heidelberg . .	1910*	» » 184, 224
	Paris . . .	1910	B. A. 27, 270

Nr. und Name	Beobachtungsort	Opposition	Publikation
92 Undina	Greenwich . .	1908	M. N. 70, 248
93 Minerva	Washington .	»	A. J. 26, 40
95 Arethusa	Genf . . .	1909	A. N. 183, 141
	Paris . . .	»	B. A. 27, 40
	Düsseldorf . .	»	A. N. 184, 63
	Marseille . .	»	B. A. 27, 95
100 Hekate	Kopenhagen .	»	A. N. 183, 333
	Heidelberg . .	1910*	» » 184, 85
104 Klymene	Heidelberg . .	»	» » 184, 86
	Taunton . .	»	» » 184, 237
105 Artemis	Washington .	1908	A. J. 26, 39
106 Dione	Greenwich . .	»	M. N. 70, 248
	Heidelberg . .	1910*	A. N. 183, 427
	Kopenhagen .	»	» » 184, 85
107 Camilla	Heidelberg . .	»	» » 184, 86
	Taunton . .	»	» » 184, 159
108 Hecuba	Nizza . . .	1909	B. A. 26, 417
	Düsseldorf . .	»	A. N. 184, 63
110 Lydia	Rom . . .	1908	» » 183, 225
111 Ato	Washington .	»	A. J. 26, 39
	Wien . . .	1910	A. N. 183, 223
113 Amalthea	Greenwich . .	1908	M. N. 70, 247
	Paris . . .	»	B. A. 27, 162, 165
	Düsseldorf . .	1909	A. N. 184, 63
	Mundenheim .	»	» » 184, 167
	Kopenhagen .	»	» » 185, 3
	Kasan . . .	»	» » 185, 21
115 Thyra	Washington .	1908	A. J. 26, 40
118 Peitho	Besançon . .	»	B. A. 27, 90
			A. N. 184, 165
	Düsseldorf . .	1910*	» » 184, 71
	Heidelberg . .	»	» » 184, 86, 99, 176
	Paris . . .	1910	B. A. 27, 269
120 Lachesis	Greenwich . .	1908	M. N. 70, 248
122 Gerda	Zôsè . . .	1907	A. N. 185, 65
	Kopenhagen .	1910*	» » 183, 417
	Cincinnati . .	1910	A. J. 26, 101
127 Johanna	Taunton . .	1909*	A. N. 183, 335
129 Antigone	Washington .	1908	A. J. 26, 39
134 Sophrosyne	Greenwich . .	»	M. N. 70, 246
	Zôsè . . .	»	A. N. 185, 67
138 Tolosa = [1909 *HL*] .	Wien . . .	1909/10	» » 184, 333
139 Juewa	Mt. Hamilton .	1909	L. B. 5, 147
140 Siwa	Tokio . . .	»	A. N. 184, 345
143 Adria	Wien . . .	»	» » 184, 321

Nr. und Name	Beobachtungsort	Opposition	Publikation
146 Lucina	Heidelberg . .	1910*	A. N. 184, 86
147 Protogeneia	Kopenhagen .	1909	» » 185, 1
148 Gallia	Paris . . .	1910	B. A. 27, 270
153 Hilda	Taunton . .	1910*	A. N. 184, 237
154 Bertha	Kopenhagen .	1909	» » 185, 3
	Genf . . .	»	» » 183, 141
	Paris . . .	»	B. A. 27, 129
	Kasan . . .	»	A. N. 185, 21
161 Athor	Mt. Hamilton .	»	L. B. 5, 148
163 Erigone	Nizza . . .	»	B. A. 26, 417
172 Baucis	Heidelberg . .	1910*	A. N. 183, 427, 428
173 Ino	Heidelberg . .	1909*	» » 182, 334
174 Phaedra	Wien . . .	1909	» » 184, 321
176 Idunna	Paris . . .	»	B. A. 27, 38
178 Belisana	Heidelberg . .	1910*	A. N. 184, 85
182 Elsa	Heidelberg . .	»	» » 186, 32
185 Eunike	Heidelberg . .	»	» » 184, 85, 99
	Taunton . .	»	» » 184, 237
190 Ismene	Nizza . . .	1909	B. A. 27, 153
	Wien . . .	»	A. N. 184, 321
	Kasan . . .	»	» » 185, 21
192 Nausikaa	Zôsè . . .	1907	» » 185, 65
195 Eurykleia	Heidelberg . .	1910*	» » 186, 32
196 Philomela	Nizza . . .	1909	B. A. 27, 28
	Heidelberg . .	1909*	A. N. 182, 373
	Taunton . .	»	» » 182, 373
198 Ampella	Greenwich . .	1908	M. N. 70, 245
202 Chryseis	Washington .	1909	A. J. 26, 41
206 Hersilia	Heidelberg . .	1910*	A. N. 185, 210
208 Lacrimosa	Heidelberg . .	1909*	» » 183, 191
	Wien . . .	1909	» » 184, 321
209 Dido	Taunton . .	1910*	» » 184, 237
211 Isolda	Kopenhagen .	»	» » 185, 407
	Heidelberg . .	»	» » 186, 31
216 Kleopatra = [1910 *KR*]	Teramo . . .	1910	» » 186, 15, 31
	Heidelberg . .	1910*	» » 186, 15
	Kopenhagen .	1910	» » 186, 31
217 Eudora	Wien . . .	1909	» » 184, 321
218 Bianca	Heidelberg . .	1910*	» » 185, 210
221 Eos	Nizza . . .	1909	B. A. 26, 417
	Washington .	»	A. J. 26, 41
	Kopenhagen .	»	A. N. 183, 333
	Wien . . .	»	» » 184, 321
	Heidelberg . .	1910*	» » 185, 209
222 Lucia	Heidelberg . .	»	» » 184, 86

Nr. und Name	Beobachtungsort	Opposition	Publikation
223 Rosa	Heidelberg . .	1910*	A. N. 185, 61
229 Adelinda = [Taunton 84]	Taunton . .	1908*	» » 184, 71
	Washington .	1908	A. J. 26, 40
233 Asterope	Paris . . .	1910*	A. N. 186, 15
235 Carolina	Heidelberg . .	»	» » 184, 99
	Taunton . .	»	» » 184, 237
241 Germania	Düsseldorf . .	1909	» » 184, 65
	Cincinnati . .	»	A. J. 26, 83
	Paris . . .	1910*	A. N. 185, 195
247 Eukrate	Paris . . .	»	» » 186, 15
250 Bettina	Taunton . .	»	» » 184, 71
251 Sophia	Heidelberg . .	»	» » 184, 224
256 Walpurga	Heidelberg . .	1909*	» » 183, 15
270 Anahita	Zôsè . . .	1907	» » 185, 67
	Greenwich . .	1907/08	M. N. 70, 246
	Cincinnati . .	1909	A. J. 26, 83
273 Atropos = [1910 *IN*] .	Heidelberg . .	1910*	A. N. 183, 312, 427
275 Sapientia	Heidelberg . .	1909*	» » 183, 16
277 Elvira	Wien . . .	1909	» » 184, 321
283 Emma	Rom . . .	1908	» » 183, 225
284 Amalia	Heidelberg . .	1910*	» » 183, 312, 427
286 Iclea	Heidelberg . .	»	» » 184, 175
287 Nephthys	Kopenhagen .	»	» » 184, 363
	Heidelberg . .	»	» » 185, 61
288 Glauke	Greenwich . .	1908	M. N. 70, 246
	Paris . . .	1909	B. A. 27, 39
	Nizza . . .	»	» » 27, 153
292 Ludovica	Heidelberg . .	1910*	A. N. 184, 224
294 Felicia = [1910 *IL*] .	Heidelberg . .	»	» » 183, 311, 427
295 Theresia	Heidelberg . .	1909*	» » 182, 334
303 Josephina	Rom . . .	1909	» » 183, 229
304 Olga	Heidelberg . .	1910*	» » 184, 99, 100, 224
306 Unitas	Rom . . .	»	» » 185, 195
	Heidelberg . .	»	» » 185, 209
308 Polyxo	Paris . . .	»	» » 185, 93
313 Chaldaea	Columbus . .	1908	» » 182, 387
	Greenwich . .	»	M. N. 70, 247
	Besançon . .	»	B. A. 27, 90
			A. N. 184, 165
	Paris . . .	1909	B. A. 27, 40
	Nizza . . .	»	» » 27, 153
	Wien . . .	»	A. N. 184, 321
	Kopenhagen .	»	» » 185, 1
318 Magdalena	Heidelberg . .	1909*	» » 183, 15
322 Phaeo	Kopenhagen .	1909	» » 185, 1

Nr. und Name	Beobachtungsort	Opposition	Publikation
324 Bamberga	Rom	1909	A. N. 183, 227
333 Badenia	Heidelberg	1909*	» » 182, 373, 374
	Kopenhagen	1909	» » 185, 3
334 Chicago	Greenwich	»	» » 184, 71
338 Budrosa	Kopenhagen	»	» » 183, 331
344 Desiderata	Heidelberg	1909*	» » 183, 15. 191
345 Tercidina	Nizza	1909	B. A. 27, 153
348 May	Heidelberg	1910*	A. N. 184, 349
350 Ornamenta	Heidelberg	»	» » 183, 311
357 Ninina	Heidelberg	»	» » 184, 100, 176
358 Appollonia	Heidelberg	»	» » 186, 31
361 Bononia	Nizza	1909	B. A. 26, 417
	Wien	»	A. N. 184, 321
365 Corduba	Kopenhagen	»	» » 185, 1
372 Palma	Teramo	1910*	» » 186, 15
374 Burgundia	Heidelberg	»	» » 184, 224
376 Geometria	Kopenhagen	»	» » 185, 295
379 Huenna	Heidelberg	1909*	» » 183, 15. 16
	Taunton	»	» » 183, 335
	Nizza	1909	B. A. 27, 158
	Kopenhagen	»	A. N. 185, 3
382 Dodona	Heidelberg	1910*	» » 183, 295
383 Janina	Heidelberg	1909*	» » 183, 15, 16
	Taunton	»	» » 183, 335
	Nizza	1909	B. A. 27, 158
	Kopenhagen	»	A. N. 185, 3
385 Ilmatar	Paris	1910*	» » 186, 15
388 Charybdis	Heidelberg	»	» » 184, 175
389 Industria	Taunton	1909*	» » 183, 335
390 Alma	Wien	1909	» » 184, 321
397 Vienna	Heidelberg	1910*	» » 185, 62
398 Admete = [1907 *AB*]	Wien	1909	» » 184, 323
399 Persephone	Heidelberg	1909*	» » 183, 191
	Kopenhagen	1909	» » 185, 5
	Nizza	»	B. A. 27, 153
402 Chloë	Washington	1908	A. J. 26, 39
	Heidelberg	1909*	A. N. 182, 333
	Rom	1909	» » 183, 231
	Wien	»	» » 184, 323
403 Cyane	Nizza	»	B. A. 26, 417
	Wien	»	A. N. 184, 323
	Heidelberg	1910*	» » 185, 210
	Williamsbay	1910	» » 185, 325
404 Arsinoë	Heidelberg	1909*	» » 183, 15
405 Thia	Heidelberg	»	» » 183, 15

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405 Thia	Taunton . . .	1909*	A. N. 183, 335
	Kopenhagen .	1909	» » 185, 3
406 Erna	Heidelberg . .	1910*	» » 186, 32
407 Arachne	Greenwich . .	1908	M. N. 70, 248
409 Aspasia	Kopenhagen .	1909	A. N. 183, 331
410 Chloris	Heidelberg . .	1910*	» » 183, 312
	Kopenhagen .	»	» » 183, 417
	Taunton . .	»	» » 184, 71
	Nizza . . .	1910	B. A. 27, 263
411 Xanthe	Heidelberg . .	1909*	A. N. 182, 374
	Rom . . .	1909	» » 183, 231
	Nizza	»	B. A. 27, 158
414 Liriope	Heidelberg . .	1910*	A. N. 184, 99
415 Palatia	Heidelberg . .	»	» » 183, 427, 428
416 Vaticana	Düsseldorf . .	»	» » 184, 191
417 Suevia	Heidelberg . .	»	» » 184, 350
418 Alemannia	Heidelberg . .	1909*	» » 183, 16
	Rom . . .	»	» » 183, 125
	Taunton . .	1909/10*	» » 183, 336
	Nizza	1909	B. A. 27, 153
	Wien . . .	»	A. N. 184, 323
	Kopenhagen .	»	» » 185, 3
419 Aurelia	Heidelberg . .	1909*	» » 182, 373, 374
420 Bertholda	Rom . . .	1909	» » 183, 231
	Nizza . . .	»	B. A. 27, 28
	Paris . . .	»	» » 27, 130
	Kopenhagen .	»	A. N. 185, 3
423 Diotima	Kopenhagen .	»	» » 183, 331
	Paris . . .	1910*	» » 184, 287
426 Hippo	Rom	1908	» » 183, 225
429 Lotis	Kopenhagen .	1909	» » 185, 1
431 Nephele	Wien . . .	1910*	» » 183, 223
	Nizza . . .	1910	B. A. 27, 263
432 Pythia	Paris . . .	1910*	A. N. 184, 191
433 Eros	Santiago de Chile	»	» » 184, 287
	Johannesburg .	1910	T. C. 1, 38
434 Hungaria	Heidelberg . .	1909*	A. N. 182, 374
437 Rhodia	Nizza . . .	1909	B. A. 26, 418
439 Ohio	Heidelberg . .	1909*	A. N. 182, 333
	Wien . . .	1909	» » 184, 323
441 Bathilde	Nizza	»	B. A. 26, 418
	Rom . . .	»	A. N. 183, 227
442 Eichsfeldia	Heidelberg . .	1910*	» » 184, 99, 100
	Taunton . .	»	» » 184, 237, 238
443 Photographica	Rom	1909	» » 183, 229

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444 Gyptis	Greenwich . .	1908	M. N. 70, 246
	Nizza . . .	1909	B. A. 26, 457
	Rom . . .	»	A. N. 183, 229
	Marseille . .	»	B. A. 27, 31
	Paris . . .	»	» » 27, 39
	Kopenhagen .	»	A. N. 183, 333
	Düsseldorf . .	»	» » 184, 65
	Cincinnati . .	»	A. J. 26, 83
	Marseille . .	»	B. A. 27, 94
	Santiago de Chile	»	A. N. 185, 51
447 Valentine	Rom . . .	»	» » 183, 231
	Genf . . .	»	» » 183, 141
	Nizza . . .	»	B. A. 27, 28
	Paris . . .	»	» » 27, 129
	Nizza . . .	»	» » 27, 153
	Marseille . .	»	» » 27, 168
	Wien . . .	»	A. N. 184, 323
	Kopenhagen .	»	» » 185, 1
451 Patientia	Heidelberg . .	1909*	» » 182, 374
	Rom . . .	1909	» » 183, 231
	Düsseldorf . .	»	» » 184, 65
	Marseille . .	»	B. A. 27, 168
	Santiago de Chile	»	A. N. 185, 53
453 Tea	Paris . . .	1908	B. A. 26, 415
	Heidelberg . .	1910*	A. N. 184, 224
456 Abnoba	Nizza . . .	1909	B. A. 26, 418
	Rom . . .	»	A. N. 183, 229
	Paris . . .	»	B. A. 27, 38
	Heidelberg . .	1910*	A. N. 186, 31
460 Scania	Kopenhagen .	1909	» » 185, 3
	Nizza . . .	»	B. A. 27, 154
	Wien . . .	»	A. N. 184, 323
462 Eriphyla	Nizza . . .	»	B. A. 27, 154
	Wien . . .	»	A. N. 184, 323
470 Kilia	Wien . . .	»	» » 184, 323
471 Papagena	Rom . . .	»	» » 183, 227
	Düsseldorf . .	»	» » 184, 65
	Bergedorf . .	1910*	» » 184, 191
	Heidelberg . .	»	» » 184, 224, 303
472 Roma	Greenwich . .	1908	M. N. 70, 246
	Nizza . . .	1909	B. A. 26, 457
	Rom . . .	»	A. N. 183, 229
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477 Italia	Nizza . . .	»	» » 27, 154
478 Tergeste	Greenwich . .	1908	M. N. 70, 245

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478 Tergeste	Nizza . . .	1909	B. A. 26, 418
	Rom . . .	»	A. N. 183, 229
	Wien . . .	»	» » 184, 323
	Paris . . .	1910*	» » 185, 93
482 Petrina	Rom . . .	1909	» » 183. 229
	Nizza . . .	»	B. A. 27, 28
	Paris . . .	»	» » 27, 129
	Wien . . .	»	A. N. 184. 323
	Kopenhagen	»	» » 185, 1
	Kasan . . .	»	» » 185, 21
483 Seppina	Nizza . . .	»	B. A. 26, 457
	Rom . . .	»	A. N. 183, 229
	Paris . . .	»	B. A. 27, 38
	Kopenhagen .	»	A. N. 183, 333
485 Genua	Besançon . .	1908	B. A. 27, 90
			A. N. 184, 165
	Paris . . .	»	B. A. 27. 162, 165
	Heidelberg . .	1909*	A. N. 183, 191
	Paris . . .	1909	B. A. 27, 130
	Nizza . . .	»	» » 27, 154
487 Venetia	Rom . . .	»	A. N. 183, 227
	Kopenhagen .	»	» » 183, 331
	Heidelberg . .	1910*	» » 185, 61
490 Veritas	Rom . . .	1908	» » 183. 225
	Heidelberg . .	1910*	» » 183, 295. 311
	Nizza . . .	1910	B. A. 27, 263
494 Virtus	Zôsè . . .	1907	A. N. 185. 65
	Heidelberg . .	1910*	» » 184, 85
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	Paris . . .	1910	B. A. 27, 269
498 Tokio	Rom . . .	1909	A. N. 183, 229
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	Wien . . .	»	» » 184. 323
501 Urhixidur	Heidelberg . .	1910*	» » 184, 224
503 Evelyn	Greenwich . .	1908	M. N. 70, 247
505 Cava	Kopenhagen .	1909	A. N. 183, 333
507 Laodica	Rom . . .	»	» » 183, 227
508 Princetonia	Greenwich . .	1908	M. N. 70, 246
509 Iolanda	Nizza . . .	1909	B. A. 26, 457
	Rom . . .	»	A. N. 183, 229
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	Wien . . .	»	A. N. 184. 323
510 Mabella	Besançon . .	1908	» » 184, 165
			B. A. 27, 90
511 Davida	Greenwich . .	»	M. N. 70, 247

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511 Davida	Besançon . .	1908	B. A. 27, 90
			A. N. 184, 165
	Zôsè . . .	»	» » 185, 67
	Nizza . . .	1909	B. A. 26, 457
	Paris . . .	»	» » 27, 39
	Düsseldorf . .	»	A. N. 184, 65
513 Centesima	Heidelberg . .	1909*	» » 183, 191
514 Armida	Heidelberg . .	»	» » 183, 15
	Taunton . .	»	» » 183, 335
	Paris . . .	1909	B. A. 27, 130
516 Amherstia	Rom . . .	1908	A. N. 183, 225
521 Brixia	Nizza . . .	1909	B. A. 26, 418
	Rom . . .	»	A. N. 183, 225
523 Ada	Rom . . .	»	» » 183, 225
	Kopenhagen .	»	» » 183, 331
	Königsberg .	»	» » 184, 169
	Nizza . . .	1910*	» » 184, 347
524 Fidelio	Heidelberg . .	»	» » 185, 275
526 Jena	Rom . . .	1909	» » 183, 227
527 Euryanthe	Nizza . . .	»	B. A. 26, 418
	Wien . . .	»	A. N. 184, 323
528 Rezia	Rom . . .	»	» » 183, 227
	Königsberg .	»	» » 184, 169
	Heidelberg . .	1910*	» » 184, 86, 99
	Wien . . .	»	» » 184, 85
	Paris . . .	1910	B. A. 27, 270
530 Turandot	Nizza . . .	1910*	A. N. 184, 303
532 Herculina	Rom . . .	1909	» » 183, 229
	Marseille . .	»	B. A. 27, 31
	Nizza . . .	»	» » 27, 37
	Paris . . .	»	» » 27, 38
	Kopenhagen .	»	A. N. 183, 333
	Düsseldorf . .	»	» » 184, 65
	Cincinnati . .	»	A. J. 26, 83
	Marseille . .	»	B. A. 27, 94
	Santiago de Chile	»	A. N. 185, 53
533 Sara	Heidelberg . .	1910*	» » 185, 209
534 Nassovia	Nizza . . .	1909	B. A. 26, 418, 457
	Paris . . .	»	» » 27, 38
	Wien . . .	»	A. N. 184, 323
535 Montague	Nizza . . .	»	B. A. 27, 154
536 Merapi	Washington .	»	A. J. 26, 41
	Rom . . .	»	A. N. 183, 227
	Heidelberg . .	1910*	» » 184, 223
	Kopenhagen .	»	» » 184, 319

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537 Pauly	Nizza	1909	B. A. 26, 418
	Rom . . .	»	A. N. 183, 229
	Kopenhagen .	»	» » 183, 333
	Wien . . .	»	» » 184, 323
538 Friederike	Nizza . . .	»	B. A. 26, 458
	Wien . . .	»	A. N. 184, 325
539 Pamina	Heidelberg . .	1909*	» » 182, 373
	Taunton . .	»	» » 183, 335
	Rom . . .	1909	» » 183, 231
	Paris . . .	»	B. A. 27, 130
	Nizza . . .	»	» » 27, 154
	Kopenhagen .	»	A. N. 185, 3
	Kasan . . .	»	» » 185, 21
540 Rosamunde . . .	Heidelberg . .	1910*	» » 184, 350
541 Deborah	Nizza . . .	1909	B. A. 27, 28
	Wien . . .	»	A. N. 184, 325
542 Susanna	Rom . . .	»	» » 183, 231
	Nizza . . .	»	B. A. 27, 28
	Kopenhagen .	»	A. N. 185, 3
543 Charlotte	Wien . . .	»	» » 184, 325
	Kopenhagen .	»	» » 185, 1
546 Herodias	Kopenhagen .	1910*	» » 183, 239
	Heidelberg . .	»	» » 183, 311
	Rom . . .	»	» » 183, 307
547 Praxedis	Washington .	1908	A. J. 26, 39
	Greenwich . .	»	M. N. 70, 248
549 Jessonda	Wien . . .	1910*	A. N. 184, 85
550 Senta	Rom . . .	1908	» » 183, 225
	Heidelberg . .	1910*	» » 183, 312
	Nizza . . .	1910	B. A. 27, 264
551 Ortrud	Heidelberg . .	1909*	A. N. 183, 191
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	Nizza . . .	1909	B. A. 27, 158
552 Sigelinde	Heidelberg . .	1909*	A. N. 182, 374
	Nizza . . .	1909	B. A. 27, 158
554 Peraga	Washington .	»	A. J. 26, 41
	Rom . . .	»	A. N. 183, 227
	Kopenhagen .	»	» » 183, 333
555 Norma	Heidelberg . .	1909*	» » 183, 16
556 Phyllis	Nizza . . .	1909	B. A. 26, 418
	Rom . . .	»	A. N. 183, 227
	Kopenhagen .	»	» » 183, 331
558 Carmen	Rom . . .	1908	» » 183, 225
	Heidelberg . .	1910*	» » 183, 428
	Kopenhagen .	»	» » 184, 85

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558 Carmen	Nizza	1910	B. A. 27, 264
559 Nanon	Nizza	1909	» » 26, 419
	Heidelberg	1910*	A. N. 185, 61
562 Salome	Nizza	1909	B. A. 26, 419
	Rom	»	A. N. 183, 227
563 Suleika	Zôse	1907	» » 185, 65
	Rom	1909	» » 183, 227
	Paris	»	B. A. 27, 38
	Wien	»	A. N. 184, 325
	Heidelberg	1910*	» » 185, 62
	Arcetri	»	» » 185, 179
566 Stereoskopia	Kopenhagen	1909	» » 183, 331
	Heidelberg	1910*	» » 184, 99, 100
567 Eleutheria	Heidelberg	»	» » 184, 223
569 Misa	Nizza	1909	B. A. 27, 154
	Wien	»	A. N. 184, 325
570 [1905 *QX*]	Heidelberg	1910*	» » 185, 61
575 [1905 *RE*]	Wien	1909	» » 184, 325
578 [1905 *RZ*]	Greenwich	1908	M. N. 70, 247
	Rom	1909	A. N. 183, 231
	Nizza	»	B. A. 27, 29
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579 [1905 *SD*]	Greenwich	1908	M. N. 70, 247
581 Tauntonia	Greenwich	»	» » 70, 247
582 [1906 *SO*]	Heidelberg	1910*	A. N. 183, 295
585 [1906 *TA*]	Heidelberg	»	» » 184, 175
	Rom	»	» » 184, 191
589 Croatia	Besançon	1908	» » 184, 165
			B. A. 27, 90
	Paris	1909	» » 27, 130
	Nizza	»	» » 27, 154
	Heidelberg	1909*	A. N. 183, 15
	Wien	1909	» » 184, 325
	Kopenhagen	»	» » 185, 3
593 [1906 *TT*]	Heidelberg	1909*	» » 183, 191
	Taunton	»	» » 183, 335
595 [1906 *TZ*]	Heidelberg	1910*	» » 183, 295
596 [1906 *UA*]	Rom	1908	» » 183, 225
	Heidelberg	1909*	» » 183, 191
598 [1906 *UC*]	Heidelberg	1910*	» » 183, 428, 184, 85
599 [1906 *UJ*]	Heidelberg	»	» » 184, 100
	Taunton	»	» » 184, 238
600 [1906 *UM*]	Washington	1909	A. J. 26, 41
	Taunton	1910*	A. N. 185, 141
603 [1906 *TJ*]	Taunton	»	» » 184, 71

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606 [1906 *VB*]	Heidelberg . .	1910*	A. N. 186, 31
607 [1906 *VC*]	Heidelberg . .	»	» » 185, 210
609 [1906 *VF*]	Heidelberg . .	»	» » 185, 62
615 [1906 *VR*]	Nizza	1909	B. A. 26, 458
	Rom	»	A. N. 183, 229
	Wien	»	» » 184, 325
617 Patroclus	Heidelberg . .	1910*	» » 183, 239
618 [1906 *VZ*]	Kopenhagen .	1909	» » 183, 333
	Heidelberg . .	1910*	» » 185, 61
619 [1906 *WC*]	Nizza	1909	B. A. 27, 155
	Wien	»	A. N. 184, 325
623 [1907 *XJ*]	Wien	»	» » 184, 325
	Kopenhagen .	»	» » 185, 1
624 Hektor	Greenwich . .	1908	M. N. 70, 246
628 [1907 *XT*]	Heidelberg . .	1909*	A. N. 182, 334
	Nizza	1909	B. A. 27, 29
	Wien	»	A. N. 184, 325
631 [1907 *YJ*]	Heidelberg . .	1909*	» » 182, 334
	Nizza	1909	B. A. 27, 159
	Wien	»	A. N. 184, 325
633 [1907 *ZM*]	Heidelberg . .	1909*	» » 183, 191
638 [1907 *ZQ*]	Washington . .	1908	A. J. 26, 41
639 [1907 *ZT*]	Heidelberg . .	1910*	A. N. 183, 311, 312
	Kopenhagen .	»	» » 183, 417
642 [1907 *ZY*]	Wien	»	» » 184, 85
	Heidelberg . .	»	» » 184, 99
645 [1907 *AG*]	Washington .	1909	A. J. 26, 41
	Heidelberg . .	1910*	A. N. 184, 176
	Taunton . . .	»	» » 184, 364
654 Zelinda	Greenwich . .	1908	M. N. 70, 246
	Rom	1909	A. N. 183, 229
	Paris	»	B. A. 27, 39
	Marseille . . .	»	» » 27, 94
	Nizza	»	» » 27, 155
655 [1907 *BF*]	Washington .	»	A. J. 26, 41
660 [1908 *CC*]	Nizza	»	B. A. 26, 419
	Paris	»	» » 27, 39
	Washington .	»	A. J. 26, 41
	Rom	»	A. N. 183, 229
	Düsseldorf . .	»	» » 184, 65
662 Newtonia	Princeton . .	1909*	» » 182, 358
	Heidelberg . .	»	» » 182, 373
	Taunton . . .	»	» » 182, 374
	Paris	1909	B. A. 27, 129
	Nizza	»	» » 27, 155

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662 Newtonia	Wien . . .	1909	A. N. 184, 325
670 [1908 *DR*]	Wien . . .	1910*	» » 183, 223
	Heidelberg . .	»	» » 183, 311
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673 [1908 *EA*]	Heidelberg . .	1910*	A. N. 183, 295
674 Rachel	Greenwich . .	1908/09	M. N. 70, 248
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	Heidelberg . .	1910*	» » 183, 428
	Rom . . .	»	» » 183, 343
	Paris . . .	1910	B. A. 27, 269
675 [1908 *DU*]	Washington .	1908	A. J. 26, 40
676 [1909 *FN*]	Wien . . .	1909	A. N. 184, 325
677 [1909 *FR*]	Rom . . .	»	» » 183, 227
	Kopenhagen .	»	» » 183, 331
	Wien . . .	»	» » 184, 327
678 [1909 *FS*]	Wien . . .	»	» » 184, 327
679 Pax	Rom . . .	»	» » 183, 227
	Heidelberg . .	1910*	» » 184, 287
680 [1909 *GW*]	Rom . . .	1909	» » 183, 229
	Wien . . .	»	» » 184, 327
681 [1909 *GZ*]	Wien . . .	»	» » 184, 327
682 [1909 *HA*]	Wien . . .	»	» » 184, 329
683 [1909 *HC*]	Wien . . .	»	» » 184, 329
684 [1909 *HD*]	Wien . . .	»	» » 184, 329
685 [1909 *HE*]	Wien . . .	»	» » 184, 331
686 [1909 *HF*]	Wien . . .	»	» » 184, 331
	Kopenhagen .	»	» » 185, 5
687 Tinette	Heidelberg . .	1909*	» » 182, 334
	Wien . . .	1909	» » 184, 331
688 Melanie	Wien . . .	»	» » 184, 333
689 [1909 *HJ*]	Wien . . .	»	» » 184, 333
690 Wratislavia	Taunton . .	1909*	» » 182, 374,
		1909/10*	183, 335, 336
	Düsseldorf . .	1909	» » 184, 65
	Cincinnati . .	»	A. J. 26, 101
	Wien . . .	1909/10	A. N. 184, 335
691 Lehigh	Taunton . .	1909/10*	» » 183, 207, 336, 184, 71

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[1901 *HD*] .	Heidelberg . .	1910 April 30*, Mai 12*	A. N. 184, 349, 350
[1908 *DC*] .	Taunton . .	1909 Aug. 11*, 14*	» » 182, 374
[1908 *EJ*] .	Washington .	1908 Okt. 4, 5, 12, 15, 16, Dez. 26, 1909 Jan. 19, 21, 25 . .	A. J. 26, 40
[1908 *EK*ᵃ] =	Washington .	» Okt. 26, Nov. 2, 12, 15, 18	» » 26, 40
=[Taunton 83]	Taunton . .	» Okt. 21*, 22*	A. N. 184, 71
[1909 *GF*] .	Rom . . .	1909 Febr. 20, 23	» » 183, 227
[1909 *HN*] .	Heidelberg . .	» Okt. 10*	» » 182, 333
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[1909 *HO*] .	Heidelberg . .	» Okt. 10*	» » 182, 333
	Wien . . .	» Okt. 13, 19, 22	» » 184, 335
[1909 *HP*] .	Heidelberg . .	» Okt. 15*	» » 182, 334
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[1909 *HQ*] .	Heidelberg . .	» Okt. 15*	» » 182, 334
	Wien . . .	» Okt. 19, 20, 22, 31 . . .	» » 184, 335
[1909 *HR*] .	Greenwich . .	» Okt. 5, 6, 8	» » 182, 371
[1909 *HS*] .	Greenwich . .	» Okt. 5, 6, 8	» » 182, 371
[1909 *HT*] .	Greenwich . .	» Okt. 5, 6, 8, 12	» » 182, 373
[1909 *HU*] .	Heidelberg . .	» Okt. 17*	» » 182, 373
[1909 *HV*] .	Heidelberg . .	» Okt. 17*	» » 182, 373
	Wien . . .	» Okt. 23	» » 184, 335
[1909 *HW*] .	Heidelberg . .	» Okt. 18*	» » 182, 374
[1909 *HX*] .	Heidelberg . .	» Nov. 6*	» » 183, 15
[1909 *HY*] .	Heidelberg . .	» Nov. 9*	» » 183, 16
[1909 *JA*] .	Heidelberg . .	» Nov. 9*	» » 183, 16
	Taunton . .	» Nov. 7*, 9*	» » 183, 79
	Kopenhagen .	» Nov. 15, 16, 17, 22 . .	» » 185, 3
	Cincinnati . .	» Nov. 24	A. J. 26, 101
	Wien . . .	» Nov. 15, Dez. 3, 6, 13, 16, 21, 31, 1910 Jan. 28 . .	A. N. 184, 335
[1909 *JB*] .	Taunton . .	» Nov. 7*, 9*, Dez. 18*, 20*, 21*, 1910 Jan. 8* . . .	» » 183, 79, 336
	Cincinnati . .	» Nov. 30, Dez. 4, 9 . . .	A. J. 26, 101
[1909 *JD*] .	Paris . . .	» Okt. 19, 23	A. N. 183, 125
[1909 *JE*] .	Heidelberg . .	» Dez. 14*, 16*	» » 183, 191
[1909 *JF*] .	Heidelberg . .	» Dez. 16*	» » 183, 191
[1910 *JH*] .	Heidelberg . .	1910 Jan. 7*	» » 183, 239
[1910 *JJ*] .	Taunton . .	» Jan. 10*, 11*, Febr. 1*, 14*	» » 183, 311, 184, 72
[1910 *JK*] .	Heidelberg . .	» Jan. 31*	» » 183, 311
[1910 *JM*] .	Heidelberg . .	» Febr. 2*, 9*, 13*	» » 183, 312, 427
[1910 *JO*] .	Heidelberg . .	» Febr. 14*	» » 183, 428
[1910 *JP*] .	Taunton . .	» Febr. 1*, 14*	» » 184, 72
[1910 *JQ*] .	Taunton . .	» Febr. 2*, 4*, März 3*, 8*	» » 184, 72, 238

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
[1910 *JR*] .	Taunton . .	1910 Febr. 4*, 5*, März 3*, 11*, April 1*, 3*	A. N. 184, 72, 238, 363
[1910 *JS*] .	Taunton . .	» Febr. 4*, 5*, März 8* . .	» » 184, 72, 238
[1910 *JT*] .	Taunton . .	» Febr. 7* 10*, März 4*, April 1*, 10*	» » 184, 72, 238, 363
[1910 *JU*] .	Taunton . .	» Febr. 7*, 10*	» » 184, 72
[1910 *JV*] .	Heidelberg . .	» Febr. 28*	» » 184, 85
[1910 *JW*] .	Heidelberg . .	» März 4*, 8*	» » 184, 85, 99, 100
	Wien . . .	» März 7, 9	» » 184, 87
	Rom . . .	» März 11, 17	» » 184, 171
[1910 *JX*] .	Heidelberg . .	» März 5*, 8*	» » 184, 86, 99
[1910 *JY*] .	Heidelberg . .	» März 30*	» » 184, 176
[1910 *JZ*] .	Heidelberg . .	» März 9*, 14*	» » 184, 223
	Taunton . .	» März 15*	» » 184, 238
[1910 *KA*] .	Taunton . .	» April 13*, 27*, 28* . .	» » 184, 303, 364
[1910 *KB*] .	Greenwich . .	» April 27*	» » 184, 303
[1910 *KC*] .	Heidelberg . .	» Juni 3*	» » 185, 61
[1910 *KD*] .	Heidelberg . .	» Juni 5*, 9*	» » 185, 62
[1910 *KE*] .	Heidelberg . .	» Juni 5*	» » 185, 62
[1910 *KF*] .	Heidelberg . .	» Juni 5*	» » 185, 62
[1910 *KG*] .	Taunton . .	» Mai 6*	» » 185, 141
[1910 *KH*] .	Taunton . .	» Mai 6*	» » 185, 141
[1910 *KJ*] .	Taunton . .	» Mai 6*	» » 185, 141
[1910 *KK*] .	Taunton . .	» Mai 6*	» » 185, 141
[1910 *KL*] .	Taunton . .	» Mai 6*	» » 185, 141
[1910 *KM*] .	Paris . . .	» März 3*, 8, 10	» » 185, 211, B. A. 27, 270,
[1910 *KN*] .	Heidelberg . .	» Juli 12*	A. N. 185, 209
[1910 *KO*] .	Heidelberg . .	» Juli 14*	» » 185, 209
[1910 *KP*] .	Heidelberg . .	» Juli 14*	» » 185, 209
[1910 *KQ*] .	Heidelberg . .	» Juli 16*	» » 185, 210
	Düsseldorf . .	» Aug. 13	» » 185, 295
	Rom . . .	» Aug. 27	» » 185, 407
[1910 *KS*] .	Heidelberg . .	» Sept. 10*	» » 186, 32

B. Berechnungen.

Durch ein Sternchen (*) sind die Ephemeriden mit ausführlich gerechneten Positionen kenntlich gemacht.

Nr. und Name	Ort der Publikation	Gegenstand
13 Egeria . .	A. N. 183, 425 . .	Ephemeride*.
43 Ariadne . .	» » 185, 108 . .	Ephemeride.
51 Nemausa . .	» » 185, 105 . .	Ephemeride.
58 Concordia .	» » 185, 123 . .	Ephemeride.
64 Angelina . .	B. A. 27, 176 . . .	Ephemeride.
67 Asia . . .	A. N. 184, 158 . .	Ephemeride.
77 Frigga . .	» » 185, 387 . .	Ephemeride.
80 Sappho . .	» » 185, 390 . .	Ephemeride.
91 Aegina . .	» » 184, 87 . .	Ephemeride.
114 Kassandra .	» » 185, 101 . .	Ephemeride.
119 Althaea . .	B. A. 27, 181 . . .	Ephemeride.
124 Alkeste . .	A. N. 185, 101 . .	Ephemeride.
126 Velleda . .	» » 185, 389 . .	Ephemeride.
138 Tolosa . .	» » 185, 295 . .	Identität mit [1909 *HL*].
161 Athor . . .	» » 185, 388 . .	Ephemeride.
182 Elsa . . .	» » 185, 106 . .	Ephemeride.
188 Menippe . .	B. A. 27, 63	Ephemeride.
192 Nausikaa . .	A. N. 184, 160 . .	Ephemeride.
	B. A. 27, 178 . . .	
211 Isolda . .	A. N. 185, 106 . .	Ephemeride.
221 Eos . . .	» » 185, 103 . .	Ephemeride.
229 Adelinda . .	A. J. 26, 54 . . .	Elemente, Ephemeride.
233 Asterope . .	A. N. 185, 105 . .	Ephemeride.
287 Nephthys . .	» » 184, 157 . .	Ephemeride.
303 Josephina .	» » 185, 104 . .	Ephemeride.
306 Unitas . .	» » 185, 102 . .	Ephemeride.
308 Polyxo . .	B. A. 27, 180 . . .	Ephemeride.
349 Dembowska .	A. N. 184, 159 . .	Ephemeride.
372 Palma . .	» » 185, 107 . .	Ephemeride.
376 Geometria .	» » 185, 104 . .	Ephemeride.
385 Ilmatar . .	» » 185, 105 . .	Ephemeride.
403 Cyane . .	» » 185, 103 . .	Ephemeride.
409 Aspasia . .	» » 184, 159 . .	Ephemeride.
	B. A. 27, 177 . . .	
414 Liriope . .	A. N. 182, 319 . .	Identität mit [1907 *BE*].
416 Vaticana . .	» » 184, 158 . .	Ephemeride.
423 Diotima . .	» » 184, 157 . .	Ephemeride.
431 Nephele . .	B. A. 27, 64	Ephemeride.

Nr. und Name	Ort der Publikation	Gegenstand
432 Pythia	A. N. 184, 155	Ephemeride.
433 Eros	» » 184, 125	Ephemeride*.
469 Argentina	» » 183, 43	Elemente.
471 Papagena	» » 184, 156	Ephemeride.
478 Tergeste	B. A. 27, 179	Ephemeride.
480 Hansa	A. N. 185, 102	Ephemeride.
490 Veritas	B. A. 27, 26	Ephemeride.
509 Jolanda	A. N. 185, 107	Ephemeride.
538 Friederike	» » 185, 108	Ephemeride.
573 [1905 *RC*]	B. A. 27, 222	Ephemeride.
574 [1905 *RD*]	A. N. 184, 239	Elemente.
605 [1906 *UU*]	B. A. 27, 221	Ephemeride.
617 Patroclus	A. N. 183, 207	Ephemeride.
654 Zelinda	» » 185, 343	Elemente, Ephemeride*.
661 [1908 *CL*]	» » 183, 189	Elemente.
662 Newtonia	» » 182, 331	Elemente, Ephemeride*.
663 [1908 *DG*]	» » 183, 189	Elemente.
664 [1908 *DH*]	» » 183, 189	Elemente.
665 [1908 *DK*]	» » 183, 189	Elemente.
666 [1908 *DM*]	» » 183, 189	Elemente.
667 [1908 *DN*]	» » 183, 189	Elemente.
668 [1908 *DO*]	» » 183, 189	Elemente.
669 [1908 *DQ*]	» » 183, 189	Elemente.
670 [1908 *DR*]	» » 183, 189	Elemente.
671 Carnegia	» » 183, 189	Elemente.
672 [1908 *DY*]	» » 183, 189	Elemente.
673 [1908 *EA*]	» » 183, 189	Elemente.
674 Rachel	» » 183, 343	Elemente, Ephemeride*.
683 [1909 *HC*]	» » 184, 319	Elemente.
686 [1909 *HF*]	A. J. 26, 110	Elemente.
687 Tinette	A. N. 184, 320	Elemente.
691 Lehigh	A. J. 26, 146	Elemente.
[1901 *HD*]	A. N. 184, 347	Elemente, Ephemeride.



Grundbegriffe der sphärischen Astronomie.

Die Bewegung der Himmelskörper wird durch die Angabe ihrer Örter und der Zeitmomente, in welchen sie diese Örter einnehmen, numerisch festgelegt.

Den Ort eines Himmelskörpers fixiert man durch seine räumlichen (rechtwinkligen oder polaren) Koordinaten. Da die Beobachtung indessen direkt nur die Richtung angeben kann, in der das Gestirn dem Beobachter erscheint, sind zunächst die *sphärischen* Koordinaten einer solchen Richtung zu definieren. Ein sphärisches Koordinatensystem, d. h. eine Orientierung auf einer Kugelfläche, wird begründet auf einen Punkt der Sphäre als *Polpunkt* und einen zweiten Punkt als *Leitpunkt*. Der Polpunkt definiert zugleich die *Achse* und den *Äquator* des Systems, die eine sphärische Koordinate ist die *Poldistanz* oder die sie zu 90⁰ ergänzende *Äquatordistanz*. Der Leitpunkt gibt in dem durch den Polpunkt und ihn gelegten größten Kreis den *Nullkreis* für die Zählung der zweiten Koordinate, des Winkels zwischen dem Nullkreis und dem durch Polpunkt und Objekt gelegten größten Kreis[1]). Man nennt Polpunkt und Leitpunkt oder Äquator und Nullkreis die *Elemente* des sphärischen Koordinatensystems. — Die gelegentlich für die Rechnung erforderlichen rechtwinkligen Koordinaten werden auf ein System bezogen, dessen z-Achse mit der Achse des sphärischen Systems zusammenfällt, während die x-Achse nach dem Nullpunkt im Äquator zeigt, und die y-Achse senkrecht dazu (im Sinne der wachsenden zweiten sphärischen Koordinate) gerichtet ist.

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[1]) Genauer gesagt: des Winkels zwischen den beiden Halbkreisen von Nordpol zu Südpol, die den Leitpunkt, resp. das Objekt enthalten.

Die Zeit wird durch einen Bewegungsvorgang der Messung zugänglich, dessen Verlauf nach gewissen theoretischen Grundlagen genau verfolgt, und dessen jedesmalige Phase genau beobachtet werden kann; die Messung eines Zeitintervalls ist auf die Messung der zurückgelegten Strecke oder des zurückgelegten Winkels zurückgeführt. Am besten eignet sich dazu ein mit konstanter Geschwindigkeit periodisch verlaufender Bewegungsvorgang, dessen Periode die Zeiteinheit, dessen Phase den Zeitmoment gibt.

I. Definition der astronomischen Koordinaten eines Punkts der Sphäre.

Die Grundlage der gebräuchlichen sphärischen Koordinatensysteme der Astronomie bilden:

1. *Zenit* und *Horizont*, definiert durch die Richtung der *Schwerkraft*.
2. *Himmelspol* und *Himmelsäquator*, definiert durch die Richtung der *Erdachse*.
3. *Pol der Ekliptik* und *Ekliptik*, definiert durch die *Ebene der Erdbahn*.

Zenit und Himmelspol bestimmen in dem durch sie gelegten größten Kreise den *Meridian* des Erdorts. Äquator und Ekliptik schneiden sich in den beiden Äquinoktialpunkten, dem *Frühlingspunkt*, in welchem die Sonne zur Zeit des Frühlingsäquinoktiums den Äquator schneidet, und dem *Herbstpunkt*; den Winkel, unter dem sie sich schneiden, bezeichnet man als *Schiefe der Ekliptik*.

Diese drei Elemente ergeben je nach der Art ihrer Kombination folgende vier

sphärische Koordinatensysteme:

1. Das System des *Zenits* (Polpunkt) und des *Himmelspols* (Leitpunkt) oder des *Horizonts* und des *Meridians* definiert als Koordinaten:

   die *Zenitdistanz* (z), vom Zenit zum Nadir von 0^0 bis 180^0 gezählt, oder ihre Ergänzung zu 90^0 die *Höhe* (h);

   das *Azimut* (a), vom Südpunkt des Horizonts über Westen von 0^0 bis 360^0 gezählt.

2. Das System des *Himmelspols* (Polpunkt) und des *Zenits* (Leitpunkt) oder des *Himmelsäquators* und des *Meridians* definiert als Koordinaten:

   die *Poldistanz*, vom einen Pol zum andern von 0^0 bis 180^0 gezählt[1]) oder ihr Komplement, die *Deklination* (δ), vom Äquator nach Norden positiv, nach Süden negativ, von 0^0 bis 90^0 gezählt;

   den *Stundenwinkel (t)*, vom Schnittpunkt des Äquators und des Meridians im Sinne der scheinbaren täglichen Bewegung der Gestirne von 0^0 bis 360^0 oder 0^h bis 24^h gezählt.

3. Das System des *Himmelspols* (Polpunkt) und des *Frühlingspunkts* (Leitpunkt) oder des *Äquators* und der *Ekliptik*[2]) definiert als *äquatoriale* Koordinaten:

   die *Poldistanz* oder ihr Komplement, die *Deklination* (s. unter 2);

   die *Rektaszension* (*AR.* oder α), vom Frühlingspunkt entgegen der Richtung der scheinbaren täglichen Bewegung von 0^0 bis 360^0 oder 0^h bis 24^h gezählt.

4. Das System des *Pols der Ekliptik* (Polpunkt) und des *Frühlingspunkts* (Leitpunkt) oder der *Ekliptik* und des *Äquators*[2]) definiert als *ekliptikale* Koordinaten:

   die *Breite*[3]) (β), entsprechend δ gezählt;

   die *Länge* (λ), entsprechend α gezählt.

Das fundamentale Koordinatensystem der praktischen Astronomie ist das dritte System, das der *äquatorialen Koordinaten, Rektaszension* und *Deklination*, beruhend auf der Richtung der *Erdachse* und der Lage der *Ekliptik.* Die räumlichen Verlagerungen, welche diese beiden Elemente erleiden, machen es erforderlich, die beobachteten, auf die augenblickliche Lage des Koordinatensystems bezogenen äquatorialen Koordinaten eines Gestirns auf feste Grundelemente zu transformieren, wenn aus den Änderungen der Koordinaten auf die tatsächliche Ortsveränderung des Gestirns geschlossen werden soll.

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[1]) Unter Poldistanz ist stets die Nordpoldistanz verstanden.

[2]) Der größte (Halb-)Kreis durch Pol des Himmels und Pol der Ekliptik besitzt in dem einen System die Rektaszension 270^0, in dem andern die Länge 90^0.

[3]) Im ekliptikalen System ist ein besonderer Name für den Polabstand nicht üblich.

Die Ekliptik.

Der Erdmittelpunkt bewegt sich nicht genau in einer Ebene, sondern wird durch die Anziehung der Planeten und des Mondes aus seiner Bahn, die bei alleinigem Wirken der Sonne eine ebene sein würde, abgelenkt. Bei der Geringfügigkeit dieser Einflüsse spricht man auch fernerhin von der Ebene der Erdbahn, die nun aber im Raume nicht völlig fest ist, sondern Verlagerungen teils säkularer, teils periodischer Natur erleidet. Die periodischen Glieder sondert man aus diesen Schwankungen ab und versteht, sobald man die Ekliptik als Fundamentalebene des astronomischen Koordinatensystems, d. h. zur Definition des Frühlingspunkts, einführt, nunmehr unter *Ekliptik* die von den periodischen Schwankungen befreite, d. h. nur säkular bewegte mittlere Ebene der Erdbahn. Die periodischen Schwankungen der wahren Erdbahn äußern sich dann darin, daß die Sonne nicht stets genau in dieser *mittleren Ekliptik* steht, sondern eine kleine Breite bis $\pm 1''$ annehmen kann.

Die Lage der momentanen mittleren Ekliptik gegen die mittlere Ekliptik einer festen Normalepoche, die sogenannte *feste Ekliptik*, wird fixiert durch Neigung i und Knotenlänge Ω, letztere gerechnet vom (mittleren) Frühlingspunkte der Normalepoche in der festen Ekliptik. Die numerischen Beträge liefert die Theorie der säkularen Störungen der Planetenbahnen. Nach Newcomb hat man, wenn T in Jahrhunderten von 1850 gezählt wird:

$$i = 47''.14\,T - 0''.03\,T^2$$
$$\Omega = 173^0\,29'.68 - 14'.48\,T.$$

Die Erdachse.

Die Rotationsachse der Erde führt im Raume, und damit der Himmelspol auf der Sphäre, die Präzessions- und Nutationsbewegung aus. Mit dem Namen *Präzession* bezeichnet man die langperiodische Umlaufsbewegung des Himmelspols um den Pol der Ekliptik, mit dem Namen *Nutation* die kurzperiodischen Schwankungen um diese Mittellage. Die dadurch in der Lage des Himmelsäquators hervorgerufenen Schwankungen beeinflussen auch Frühlingspunkt und Schiefe der Ekliptik. Die augenblickliche Lage dieser Elemente (Pol, Äquator, Frühlings-

punkt) bezeichnet man als ihre *wahre* Lage[1]). Im Gegensatz dazu nennt man *mittleren Pol* und *mittleren Äquator* die allein durch die Präzession beeinflußte Lage von Pol und Äquator, *mittleren Frühlingspunkt* den Schnittpunkt dieses mittleren Äquators und der mittleren Ekliptik, *mittlere Schiefe der Ekliptik* den Winkel zwischen mittlerem Äquator und mittlerer Ekliptik.

Den Verlauf dieser Bewegungen liefert die Theorie der Erdrotation in Verbindung mit den oben gegebenen Verlagerungen der Erdbahn.

Präzession.

Den Verlauf der Präzessionsbewegung von der festen Epoche 1850 bis zur veränderlichen $1850 + T$ (T in Jahrhunderten) fixieren folgende Angaben (die Zahlenwerte nach Newcomb):

1. Die „Allgemeine Präzession“ in Länge, d. h. die Bewegung des Durchschnittspunkts des beweglichen Äquators und der beweglichen Ekliptik, gezählt auf der letzteren:

$$\psi_1 = 5024''.53\, T + 1''.11\, T^2.$$

Den Koeffizienten von T in ψ_1 nennt man die *Präzessionskonstante.*

2. Die Lunisolarpräzession in Länge, das ist die Bewegung des Durchschnittspunkts des beweglichen (mittleren) Äquators und der festen Ekliptik (1850), gezählt auf der letzteren:

$$\psi = 5036''.84\, T - 1''.07\, T^2.$$

3. Die Präzession durch die Planeten, das ist der Bogen auf dem mittleren Äquator der Zeit $1850 + T$ zwischen der Ekliptik von 1850 und der von $1850 + T$:

$$a = 13''.42\, T - 2''.38\, T^2.$$

4. Der Winkel zwischen fester Ekliptik (1850) und beweglichem Äquator ($1850 + T$):

$$\varepsilon_0 = 23^0\, 27'\, 31''.68 + 0''.07\, T^2 - 0''.01\, T^3.$$

5. Die mittlere Schiefe der Ekliptik zur Zeit $1850 + T$:

$$\varepsilon = 23^0\, 27'\, 31''.68 - 46''.84\, T - 0''.01\, T^2.$$

[1]) Nur ist, genauer ausgedrückt, der wahre Frühlingspunkt der Schnittpunkt des wahren Äquators mit der oben definierten mittleren Ekliptik, die wahre Schiefe der Winkel zwischen wahrem Äquator und mittlerer Ekliptik.

6. Die „Allgemeine Präzession“ in Rektaszension, das ist die Bewegung des Durchschnittspunkts der beweglichen Ekliptik und des beweglichen Äquators, gezählt auf dem letzteren:

$$z + \zeta = 4607''.11\,T + 1''.40\,T^2 + 0''.04\,T^3.$$

7. Der Winkel zwischen dem mittleren Äquator von 1850 und dem von 1850 + T:

$$\vartheta = 2005''.11\,T - 0''.43\,T^2 - 0''.04\,T^3.$$

Nutation.

1. Nutation in Länge:

$$\begin{aligned}\Delta\psi = &-(17''.234 + 0''.017\,T)\sin\Omega + 0''.209\sin 2\Omega\\ &- 1''.272\sin 2L + 0''.126\sin g'\\ &- 0''.050\sin(2L + g') + 0''.021\sin(2L - g')\\ &+ 0''.012\sin(2L - \Omega) + 0''.005\sin(2\omega + \Omega)\\ &- 0''.204\sin 2☾ + 0''.068\sin g - 0''.034\sin(2☾ - \Omega)\\ &- 0''.026\sin(2☾ + g) + 0''.015\sin(2☾ - 2L - g)\\ &+ 0''.011\sin(2☾ - g) + 0''.006\sin(2☾ - 2L).\end{aligned}$$

2. Nutation in Schiefe:

$$\begin{aligned}\Delta\varepsilon = &(9''.210 + 0''.0009\,T)\cos\Omega - 0''.090\cos 2\Omega\\ &+ 0''.551\cos 2L + 0''.022\cos(2L + g') - 0''.009\cos(2L - g')\\ &- 0''.007\cos(2L - \Omega) - 0''.003\cos(2\omega + \Omega)\\ &+ 0''.088\cos 2☾ + 0''.018\cos(2☾ - \Omega) + 0''.011\cos(2☾ + g)\\ &- 0''.005\cos(2☾ - g).\end{aligned}$$

Den Koeffizienten des Hauptgliedes der Nutation in Schiefe nennt man die *Nutationskonstante.*

Darin ist nach Hansen resp. Newcomb:

$$\begin{aligned}\Omega &= 259^0\,10'\,50''.37 - 6962923''.21\,T + 8''.21\,T^2 + 0''.01\,T^3\\ \omega &= 75^0\,8'\,47''.92 + 21611433''.29\,T - 44''.45\,T^2 - 0''.04\,T^3\\ g &= 296^0\,7'\,6''.30 + 1717915936''.17\,T + 49''.59\,T^2 + 0''.05\,T^3\\ ☾ &= \Omega + \omega + g.\end{aligned}$$

$$\begin{aligned}g' &= 358^0\,28'\,33''.0 + 129596579''.10\,T - 0''.54\,T^2\\ L &= 279^0\,41'\,48''.04 + 129602768''.13\,T + 1''.09\,T^2\end{aligned}$$

Ω Mondknoten, ω Distanz des Mondperigäums vom Mondknoten, g und g' mittlere Anomalie des Mondes und der Sonne, ☾ und L mittlere Länge des Mondes und der Sonne; T die seit 1900 Jan. 0.0 M. Zt. Greenwich verflossene Zeit in julianischen Jahrhunderten (= 36525 mittl. Sonnentagen).

Wahre und Mittlere Koordinaten.

Infolge der Verlagerungen der Ekliptik und der Erdachse im Raume hängen die Koordinaten eines Punkts der Sphäre davon ab, auf welchen Zustand des Koordinatensystems, kurz, auf welches Äquinoktium sie bezogen sind. Die Beobachtungsmethoden verwerten die Rotation der Erde bei der Messung der Koordinaten und geben sie demnach (oder genauer ihre Differenzen) bezogen auf den momentanen Zustand des Koordinatensystems, d. h. auf den momentanen Äquator[1]). Indem man gleichzeitig die AR.-en auf den wahren Frühlingspunkt in ihm bezieht, erhält man die Koordinaten, bezogen auf das *wahre Äquinoktium der Beobachtungsepoche.* Befreit man sie von dem Einfluß der Nutation, so beziehen sie sich auf die momentane Lage des mittleren Äquators und der mittleren Ekliptik, kurz auf das *mittlere Äquinoktium der Beobachtungsepoche.* Von hier aus kann man sie auf das *mittlere Äquinoktium des Jahresanfangs* oder auf das einer Normalepoche, ein *Normal-Äquinoktium*, beziehen.

Anmerkung: Eine ganz feststehende Bezeichnung für die solcher Art unterschiedenen Koordinaten besteht nicht, man spricht zwar von »*wahren*« Koordinaten des betreffenden Punkts der Sphäre im Gegensatz zu »*mittleren*«; doch ist nicht zu übersehen, daß die Bezeichnung »*wahr*« mehr in Beziehung zu dem Ort eines Gestirns im Gegensatz zu seinem »*scheinbaren*« Ort gebraucht wird.

Zur Übertragung der Gestirnskoordinaten von dem mittl. Äquin. $1850 + \tau = t_1$ auf das mittl. Äquin. $1850 + \tau + T = t_2$ (τ und T in Jahrhunderten) dienen die Hilfsgrößen:

$$\zeta = (2303''.56 + 1''.40\tau)\,T + 0''.30\,T^2 + 0''.02\,T^3$$
$$z = (2303''.55 + 1''.40\tau)\,T + 1''.09\,T^2 + 0''.02\,T^3$$
$$\vartheta = (2005''.11 - 0''.85\tau)\,T - 0''.43\,T^2 - 0''.04\,T^3$$

[1]) Wenigstens bei den üblichen Beobachtungsmethoden mit festem Fernrohr; die Ausmessung photographischer Aufnahmen — und strenge genommen auch des visuellen Himmelsbildes bei bewegtem Fernrohr — kann, wenn nur die Örter der Fixpunkte, resp. die Richtungen der Mikrometerfäden entsprechend gewählt werden, in einem beliebigen festen Koordinatensysteme erfolgen.

Die Bedeutung der Hilfsgrößen ζ und z ist:

$-\zeta$: die AR. des Himmelspols zur Zeit t_2, gezählt vom Äquinoktium t_1.

$180^0 + z$: die AR. des Himmelspols zur Zeit t_1, gezählt vom Äquinoktium t_2.

Bezeichnen dann α_1, δ_1 resp. α_2, δ_2 die Koordinaten eines Gestirns, bezogen auf das mittlere Äquin. t_1 resp. t_2, so ist:

$$a_1 = \alpha_1 + \zeta$$

$$p = (\operatorname{tg} \delta_1 + \cos a_1 \operatorname{tg} \tfrac{1}{2} \vartheta) \sin \vartheta$$

$$\operatorname{tg} \Delta a = \frac{p \sin a_1}{1 - p \cos a_1}$$

$$\alpha_2 = a_1 + z + \Delta a$$

$$\operatorname{tg} \tfrac{1}{2} (\delta_2 - \delta_1) = \cos (a_1 + \tfrac{1}{2} \Delta a) \sec \tfrac{1}{2} \Delta a \operatorname{tg} \tfrac{1}{2} \vartheta,$$

oder, fast immer ausreichend genau:

$$\delta_2 = \delta_1 + \vartheta \cos (a_1 + \tfrac{1}{2} \Delta a) \sec \tfrac{1}{2} \Delta a$$ [1].

Diese strengen Übertragungsformeln werden nur angewandt, wenn es sich um polnahe Sterne oder um sehr große Zwischenzeiten $t_2 - t_1$ handelt. In allen anderen Fällen entwickelt man den Präzessions-Effekt nach Potenzen der Zwischenzeit $t_2 - t_1$, welche man in Jahren auszudrücken pflegt, und setzt:

$$\left| Prz \right|_{t_1}^{t_2} = Prz_{t_1} (t_2 - t_1) + \frac{1}{200} V_{t_1} (t_2 - t_1)^2 + \ldots .$$

Darin stellen dar:

Prz_t die momentane Änderung der Koordinaten durch die Präzession zur Zeit t, berechnet für ein Jahr; man bezeichnet sie als *jährliche Präzession* oder kurz *Präzession*:

$$Prz_t(\alpha) = m + n \sin \alpha \operatorname{tg} \delta$$
$$Prz_t(\delta) = n \cos \alpha$$

mit:

$$m = \frac{d(z + \zeta)}{dt} = \frac{d\psi}{dt} \cos \varepsilon - \frac{da}{dt} = 46''.0711 + 0''.000279 (t - 1850)$$

$$n = \frac{d\vartheta}{dt} = \frac{d\psi}{dt} \sin \varepsilon = 20''.0511 - 0''.000086 (t - 1850).$$

V_t die hundertjährige Änderung von Prz_t; man bezeichnet sie als *variatio saecularis* (*v. s.*).

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[1]) Will man umgekehrt α_1, δ_1 aus α_2, δ_2 ableiten, so hat man statt der Hilfsgrößen: ζ, z, ϑ nunmehr: $-z$, $-\zeta$, $-\vartheta$ anzuwenden.

Prz_t und V_t fügt man gewöhnlich den Angaben der Sternörter in den Sternkatalogen bei. Ist das nicht der Fall, so genügt die Berechnung von Prz für das Mittel beider Epochen, um durch

$$|Prz|_{t_1}^{t_2} = Prz_{\frac{t_1+t_2}{2}}(t_2 - t_1)$$

die gleiche Genauigkeit zu erzielen.

II. Messung der Zeit.

Der Tag.

Zum Messen der Zeit bedient man sich des periodischen Vorgangs der Erdrotation, welche mit konstanter Winkelgeschwindigkeit um die Erdachse erfolgt. Zur Zeiteinheit wählt man die Dauer einer solchen Rotation, den *Tag*, und bestimmt den Zeitmoment durch die augenblickliche Phase dieser Rotation. Da diese Phase indessen nur durch die Stellung der Ebene eines bestimmten Erdmeridians gegen die Außenwelt, d. h. gegen bestimmte Marken an der Sphäre, fixiert werden kann, und alle Himmelsobjekte ihren Ort an der Sphäre mehr oder weniger verändern, so hängt die Länge der Zeiteinheit von dem gewählten Objekt ab. Da ferner die Ebene eines Erdmeridians infolge der veränderlichen Lage der Erdachse im Raume nach Verlauf einer Umdrehung nicht mehr die gleiche Lage zur Sphäre einnimmt, und sonach auch dieserhalb die Dauer einer Umdrehung von der Lage des zur Marke dienenden Gestirns, selbst wenn es fest wäre, abhängt, so setzt die absolute Konstanz des Zeitmaßes eine gleichförmige Bewegung der die Zeit bestimmenden Himmelsmarke[1]) in dem wahren Äquator voraus.

Als Zeitmarken kommen allein der *Frühlingspunkt*, als Nullpunkt der AR.-en von wesentlichster Bedeutung für die Astronomie, und die *Sonne*, ihrer Bedeutung für das bürgerliche Leben wegen, in Betracht. Die beiden auf sie begründeten Zeitmessungen bezeichnet man als *Sternzeit*- und als *Sonnenzeit*-Rechnung. Indem man noch den Anfangspunkt der Zählung,

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[1]) oder eigentlich nur ihrer sphärischen Projektion auf den wahren Äquator.

das ist den Beginn des Tages, auf den Moment der Kulmination legt, definiert man im besonderen als

Sternzeit: den Stundenwinkel des (wahren) Frühlingspunkts.

Sonnenzeit: den Stundenwinkel der Sonne.

Sterntag resp. *Sonnentag:* die Zeit, die zwischen zwei aufeinanderfolgenden Durchgängen des Frühlingspunkts resp. der Sonne durch den Meridian verfließt.

Allgemein gilt dann für jedes Gestirn:

$$\text{Sternzeit } (\Theta) = \text{Stundenwinkel } (t) + \text{Rektaszension } (\alpha).$$

Da aber die Bewegung der Sonne in AR. ungleichförmig ist, führt man statt der wahren Sonne eine mit gleichförmiger Geschwindigkeit im wahren Äquator wandernde fingierte, eine sogenannte *mittlere Sonne* ein und definiert dann als:

Wahre (Sonnen)-*Zeit* den Stundenwinkel der wahren Sonne.

Mittlere (Sonnen)-*Zeit* den Stundenwinkel der mittleren Sonne.

Wahren Mittag den Kulminationsmoment der wahren Sonne.

Mittleren Mittag den Kulminationsmoment der mittleren Sonne.

Ebenso bezeichnet man die Zeit, die zwischen zwei aufeinanderfolgenden Durchgängen dieser mittleren Sonne durch den Meridian verfließt, als *mittleren Sonnentag.*

Den Unterschied beider Sonnenzeiten nennt man die *Zeitgleichung.* Es ist:

Zeitgleichung = Mittlere Zeit — Wahre Zeit.

Da aber

Sternzeit = Wahre Zeit + AR. der wahren Sonne
= Mittlere Zeit + AR. der mittleren Sonne

ist, so folgt:

Zeitgleichung = AR. der wahren Sonne minus
AR. der mittleren Sonne.

Die mittlere Zeit ist ein gleichförmiges Maß der Zeit.

Die Sternzeit stellt kein völlig gleichförmiges Zeitmaß dar, da der wahre Frühlingspunkt infolge der Nutationsschwankungen im Äquator nicht gleichförmig bewegt ist. Indessen sind seine Schwankungen um den mittleren Frühlingspunkt nur geringfügig, so daß man bei der Rechnung nach wahrer Sternzeit stehen bleibt. Diese Messung der Zeit durch die wahre Sternzeit weicht also von einer absolut gleichförmigen Zeitmessung, wie sie durch eine ideale

Uhr angezeigt würde, um den Betrag der Nutation des Frühlingspunkts in AR. ab; die Hauptglieder verursachen eine Schwankung um eine absolut gleichförmige Zeitmessung von $\pm 1^s.05$ in $18^2/_3$-jähriger und von $\pm 0^s.08$ in $^1/_2$-jähriger Periode.

Auch der allein der Präzession unterworfene mittlere Frühlingspunkt ist infolge des quadratischen Gliedes der Präzession nicht ganz gleichförmig bewegt, doch ist die Ungleichförmigkeit auf absehbare Zeit hin zu vernachlässigen [1]).

Zur Umrechnung von Sternzeit in mittlere Zeit und umgekehrt bedarf man des Verhältnisses der beiden Zeiteinheiten und der Beziehung der Zählungsanfangspunkte aufeinander. Für das erstere gilt:

1 (mittlerer) Sterntag [2]) = 0.997269567 mittlere Sonnentage $= 23^h 56^m 4^s.09058$ in mittlerem Zeitmaß.

1 mittlerer Sonnentag = 1.002737909 (mittlere) Sterntage $= 24^h 3^m 56^s.55536$ in Sternzeitmaß.

Um die Beziehung beider Zählungsanfangspunkte aufeinander zu erhalten, gibt man an

$$\text{Sternzeit im mittleren Mittag} = A_m + \text{Nut. in AR.}$$
$$= 18^h 38^m 45^s.836 + 8640184^s.542\, T + 0^s.0929\, T^2 + \text{Nut. in AR.}$$

(nach Newcomb),

worin T die seit 1900 Jan. 0.0 M. Zt. Greenwich verflossene Zeit in Einheiten von 36525 mittleren Sonnentagen bezeichnet.

Die genannten Zeiten sind infolge ihrer Definition als Stundenwinkel eines Himmelsobjekts *Ortszeiten*; da die Differenz der Zeiten zweier Orte (im gleichen Moment) gleich der geographischen Längendifferenz beider Orte ist, setzt eine Beziehung zweier an verschiedenen Erdorten erhaltenen Zeitangaben die Kenntnis ihrer *Längendifferenz* voraus.

Um der Unbequemlichkeit des beständigen Wechsels der Zeit von Ort zu Ort zu entgehen, hat man neuerdings im bürgerlichen Leben gewisse Normalzeiten eingeführt, die für

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[1]) Streng genommen wird jede Zeitmessung auch durch die Veränderlichkeit der Erdmeridiane infolge der Verlagerung der Erdachse und damit des Erdpols im Erdkörper beeinflußt; doch ist deren Effekt weit unter der Grenze der Meßbarkeit.

[2]) d. h. abzüglich der Nutationsschwankungen oder die Durchschnittslänge eines wahren Sterntages.

eine ganze Zone (in geographischer Länge) gleich bleiben; sie sind fast durchweg an den Greenwicher Meridian angeschlossen und weichen um eine bestimmte Anzahl ganzer Stunden von Greenwicher Zeit ab, so die Greenwicher Zeit selbst, die Mitteleuropäische Zeit (Greenwicher Zeit $+ 1^h$), usw.

Der Beginn des bürgerlichen Tages wird auf Mitternacht gelegt, sodaß die ersten zwölf Stunden des astronomischen Tages mit den Nachmittagsstunden desselben bürgerlichen Tages, die zweiten zwölf Stunden mit den Vormittagsstunden des nächstfolgenden bürgerlichen Tages identisch sind.

Das Jahr.

Die durchlaufende Zählung nach Tagen bietet bei größeren Zeiträumen Unbequemlichkeiten, zu deren Vermeidung man als Zeiteinheit an die Stelle des Tages das *Jahr* einführt.

1. Das *tropische Jahr* ist die Zeit, in welcher die mittlere Länge der wahren Sonne (ohne periodische Störungen) um 360^0 zunimmt. Seine Länge ist =

   $[365.24219879 - 0.0000000614 (t - 1900)]$ mittleren Tagen, es ist also nicht absolut konstant, doch nimmt seine Länge in einem Jahrtausend nur um $5^s.3$ ab.

   Nach Bessel legt man den Beginn des astronomischen Jahres auf den Moment, in welchem

   $$A_m = 280^0 = 18^h 40^m$$

   ist, was nahe mit dem bürgerlichen Jahresanfang zusammenfällt, nennt diesen Moment den Beginn des *annus fictus* und sagt z. B. 1900.0; die Länge dieses so definierten annus fictus ist =

   $[365.24219879 - 0.0000000786 (t - 1900)]$ mittleren Tagen und fällt demnach sehr nahe mit der des tropischen Jahres zusammen. Der Moment, in welchem das annus fictus beginnt, ist ein von jeder Beziehung zu einem Erdmeridian unabhängiger, absoluter Weltzeitmoment. Um ihn zu den einzelnen Ortszeiten in Beziehung zu setzen, benutzt man den Meridian, in welchem die mittlere Sonne im Beginn des annus fictus kulminiert, den sog. *Normalmeridian*, dessen östliche geographische Länge von Jahr zu Jahr um nahezu 90^0 abnimmt. Die Beziehung des bürgerlichen Jahresanfangs

zu dem des annus fictus vermittelt dann der sog. *dies reductus*, d. h. die Differenz „bürgerlicher Jahresanfang — Anfang des annus fictus“.

2. Das *julianische Jahr* = $365^1/_4$ mittleren Sonnentagen.
3. Das *gregorianische* oder *bürgerliche Jahr* = 365.2425 mittleren Sonnentagen (1582 eingeführt, indem nach dem 4. Oktober 10 Tage ausgelassen und gleich der 15. Oktober gezählt wurde).

Die astronomische Praxis setzt den Beginn des Gemeinjahres auf

Jan. 0 $0^h 0^m 0^s$ mittlerer Ortszeit,

den Beginn des Schaltjahres auf

Jan. 1 $0^h 0^m 0^s$ mittlerer Ortszeit.

Den Ausgangspunkt der Zeitrechnung nach Jahren bildet das Jahr 0, identisch mit dem Jahre 1 v. Chr. der Chronologie; allgemein ist das Jahr $-n$ gleich dem Jahre $n+1$ v. Chr., so daß von Anfang des Jahres $-n$ bis zum Anfang des Jahres $+m$ genau $m+n$ Jahre verflossen sind.

Die durchlaufende Rechnung nach mittleren Sonnentagen setzt den Beginn der sogenannten *julianischen Periode* auf Januar 1.0 des Jahres -4712; von da an sind die Jahre bis 1581 einschließlich als julianische gezählt, das Jahr 1582 erhält $365-10=355$ Tage, dann wird nach den Vorschriften des gregorianischen Kalenders gerechnet.

III. Reduktion der beobachteten Koordinaten eines Gestirnsortes.

Scheinbarer Ort und Wahrer Ort.

Der Ort, an dem uns ein Gestirn erscheint, und sonach die Richtung, in der wir das Gestirn am Fernrohr einstellen, entspricht nicht der geradlinigen Verbindungslinie des Beobachtungs- und des Gestirnsortes, sondern weicht infolge der endlichen Fortpflanzungsgeschwindigkeit des Lichts um den Betrag der sogenannten *Aberration* davon ab. Aus dem gleichen Grunde ist der Moment t_2, in dem wir das Gestirn beobachten, von dem Moment t_1, zu dem es das Licht aussandte, um die sogenannte *Lichtzeit* ($\Delta t = 498^s.4\ \Delta$, Δ in Einheiten der mittleren Entfernung Erde—Sonne) verschieden.

Die Aberration.

Die *Aberration* bewirkt eine Verschiebung des Gestirnsorts in der Richtung nach dem Zielpunkt oder Apex der momentanen Bewegung des Beobachters um den Betrag $\frac{v}{V}\sin D$, wenn v und V die Geschwindigkeit des Beobachters und des Lichts, D den Winkelabstand des Gestirns von jenem Apex bezeichnen. Den so verschobenen, allein beobachtbaren Ort des Gestirns nennt man seinen *scheinbaren* Ort, den von dem Aberrationseffekt befreiten seinen *wahren* Ort. In aller Strenge müßte man den Aberrationseffekt mit der momentanen Bewegungs-Richtung und -Geschwindigkeit des Beobachters berechnen, in der Praxis zerlegt man ihn aber mit hinreichender Schärfe, den beiden Hauptbewegungsformen des Beobachters entsprechend, in die *tägliche* (der Erdrotation entstammende) und die *jährliche* (dem elliptischen Erdumlauf um die Sonne entstammende) Aberration.

Bezeichnet man die scheinbaren Koordinaten durch hinzugefügte Striche, so erhält man als Reduktionsformeln für

Tägliche Aberration:

$$\alpha - \alpha' = -0''.320 \cos\varphi \cos t \sec\delta$$
$$\delta - \delta' = -0''.320 \cos\varphi \sin t \sin\delta.$$

Bei differentiellen Messungen fällt sie heraus, bei Meridianbeobachtungen ($t = 0$) wirkt sie nur auf α und läßt sich stets in Verbindung mit dem Kollimationsfehler des Instruments berücksichtigen.

Jährliche Aberration.

Es genügt auch hier fast stets, sich auf die Glieder erster Ordnung zu beschränken. In ekliptikalen Koordinaten wird:

$$\lambda - \lambda' = 20''.47 \cos(\odot - \lambda)\sec\beta + \{0''.343 \cos(\Gamma - \lambda)\sec\beta\}$$
$$\beta - \beta' = 20''.47 \sin(\odot - \lambda)\sin\beta + \{0''.343 \sin(\Gamma - \lambda)\sin\beta\}.$$

Hierin ist $\odot$ die wahre Länge, Γ die Länge des Perigäums ($= L - g'$) der Sonne. Den Koeffizienten des Hauptgliedes nennt man die *Aberrationskonstante.* Das in Klammern gesetzte, von der Erdbahnexzentrizität abhängige Glied bewirkt[1]) für

[1]) Wenigstens soweit man von den Veränderungen der Erdbahn selbst absieht.

die Fixsterne eine konstante Verschiebung des Orts an der Sphäre; auch sein Betrag in α und in δ kann außer bei ganz polnahen Sternen als konstant angesehen werden; seine Berücksichtigung erübrigt sich daher hier. Damit wird dann in äquatorialen Koordinaten:

$$\alpha - \alpha' = 20''.47 \, (\sin\alpha \sin\odot + \cos\alpha \cos\odot \cos\varepsilon) \sec\delta$$

$$\delta - \delta' = 20''.47 \, (\cos\alpha \sin\odot \sin\delta - (\sin\alpha \sin\delta \cos\varepsilon - \cos\delta \sin\varepsilon) \cos\odot).$$

Die Abweichung der tatsächlichen Erdbewegung von einer den Keplerschen Gesetzen folgenden elliptischen Bewegung um den Sonnenmittelpunkt, herrührend von den störenden Einflüssen der Planeten und des Mondes auf Sonne und Erde, verursacht nur geringfügige Aberrationseffekte (vergl. H. Battermann, Beiträge zur astronomischen Aberrationslehre, Diss., Berlin 1881), die unberücksichtigt bleiben können.

Der von der Aberration befreite wahre Ort stellt die Richtung vom Erdort E_2 nach dem Gestirnsort S_1 dar und könnte bei Kenntnis der Entfernung des Gestirns und damit der Lichtzeit durch Berücksichtigung des parallaktischen Effekts der Erdbewegung von E_1 nach E_2 (kurz der *Lichtzeitparallaxe*) auf den gemeinsamen Moment t_1 bezogen, d. h. auf die Richtung von E_1 nach S_1 reduziert werden. In der Praxis verwertet man indessen die Tatsache, daß für alle Körper des Sonnensystems die Bewegung des Erdmittelpunkts während der Lichtzeit als geradlinig gelten kann und sonach der zur Zeit t_2 beobachtete scheinbare Gestirnsort gleich dem der Zeit t_1 zugehörigen wahren ist, und befreit die unmittelbare Beobachtung von Aberration und Lichtzeitparallaxe zusammen, indem man — neben der eventuellen Berücksichtigung der täglichen Aberration — nur die Beobachtungszeit t_2 um Δt vermindert. Der Fehler beträgt im Maximum etwa $0''.001\Delta$ und erreicht damit selbst für Neptun höchstens $0''.03$. Damit ist dann auch für die Wandelsterne das kleine von der Erdbahnexzentrizität abhängige Glied berücksichtigt. Ist die Entfernung unbekannt, so bringt man an den beobachteten scheinbaren Ort allein die Aberration an und hat dann die wahre Richtung von E_2 nach S_1; um dann bei neuentdeckten Planeten oder Kometen wahre heliozentrische Örter für die Zeit t_1 zu gewinnen, führt man in die Übertragungsformeln der geozentrischen Örter des Gestirns in heliozentrische die Erd-

koordinaten der Epoche t_2 ein; die Zeitmomente t_1 selbst lernt man allerdings erst kennen, wenn durch die Bahnbestimmung die Entfernung Δ bekannt wird. Für die Fixsterne, deren Entfernung ja fast durchweg unbekannt ist, sieht man von der Berücksichtigung der Lichtzeitparallaxe ganz ab, wodurch nur ein für die Praxis gleichgültiger konstanter Fehler in dem Sternort entsteht.

Parallaxe.

Die beobachteten Örter beziehen sich auf den jedesmaligen Standpunkt des Beobachters als Koordinatennullpunkt, sie werden daher praktisch noch auf einen von der individuellen Ortsveränderung des Beobachters unabhängigen Nullpunkt übergeführt, als den man im allgemeinen den Erd- oder den Sonnenmittelpunkt wählt. Diese Übertragung der beobachteten in geozentrische oder heliozentrische Örter erfolgt durch Berücksichtigung der sogenannten *täglichen* oder *jährlichen Parallaxe*, indem man die Veränderung, welche die Richtung nach einem Objekte beim Übergang von einem Beobachtungsstandpunkt zu einem anderen erleidet, als *parallaktische* und ihren Betrag allgemein als *Parallaxe* bezeichnet. Wird der Betrag einer solchen Verschiebung des Koordinatensystems in rechtwinkligen Koordinaten durch die drei Strecken x, y, z fixiert, so ist in leicht ersichtlicher Schreibweise:

$$\begin{aligned} \Delta \cos A \cos B &= \Delta' \cos A' \cos B' + x \\ \Delta \sin A \cos B &= \Delta' \sin A' \cos B' + y \\ \Delta \sin B &= \Delta' \sin B' \qquad\quad\; + z, \end{aligned}$$

woraus man weitere Formeln für $A' - A$, $B' - B$, $\Delta' - \Delta$ ableiten kann. Zu ihrer Auswertung muß man die Beträge x, y, z und die Entfernung des Objekts kennen.

Geozentrischer Ort.

Beim Übergang auf das Erdzentrum wird in äquatorialen Koordinaten

$$x = \rho \cos \Theta \cos \varphi', \qquad y = \rho \sin \Theta \cos \varphi', \qquad z = \rho \sin \varphi',$$

worin ρ, φ', Θ die geozentrischen Polarkoordinaten des Beobachtungsorts im äquatorialen Koordinatensystem, d. h. ρ, φ' geozentrischen Radiusvektor und geozentrische Breite, Θ die Sternzeit bezeichnen. Sind a, b die Halbachsen der Erd-

meridianellipse, $\alpha = \frac{a-b}{a}$ die sogenannte Abplattung der Erde, φ die geographische Breite des Beobachtungsorts, so wird:

$$\operatorname{tg} \varphi' = \frac{b^2}{a^2} \operatorname{tg} \varphi \quad \text{und} \quad \rho^2 = a^2 \frac{\cos \varphi}{\cos \varphi' \cos (\varphi' - \varphi)} \cdot$$

Die Erddimensionen sind nach

	a	b	$1 : \alpha$
Bessel	6377397	6356079	299.15
Clarke	6378249	6356515	293.47
Helmert . . .	6378000	6356612	298.20

Für den Mond muß man die strengen Transformationsformeln oder Reihenentwicklungen verwenden, für alle übrigen Gestirne reicht das erste Glied dieser Entwicklung aus:

$$\alpha_{\text{geoz.}} - \alpha_{\text{beob.}} = \frac{\rho p_\odot}{\Delta} \cos \varphi' \sec \delta \sin (\Theta - \alpha)$$

$$\delta_{\text{geoz.}} - \delta_{\text{beob.}} = \frac{\rho p_\odot}{\Delta} [\cos \delta \sin \varphi' - \sin \delta \cos \varphi' \cos (\Theta - \alpha)].$$

ρ in Einheiten des Äquatorradius a der Erde,
Δ in Einheiten der mittleren Entfernung Erde—Sonne.

$p_\odot = 8''.80$ ist die *Sonnenparallaxe*, d. i. der Winkel, unter welchem der Äquatorradius a der Erde von der Sonne in ihrer mittleren Entfernung erscheint.

$\frac{p_\odot}{\Delta}$, der Winkel, unter dem a von einem Gestirn in der Entfernung Δ erscheint, heißt die *Äquatorial-Horizontalparallaxe*, $\frac{\rho p_\odot}{\Delta}$ die *Horizontalparallaxe*.

Heliozentrischer Ort.

Bei Zugrundelegung äquatorialer Koordinaten wird

$$x = -R \cos \odot, \quad y = -R \sin \odot \cos \varepsilon, \quad z = -R \sin \odot \sin \varepsilon,$$

worin R den Radiusvektor in der Erdbahn bezeichnet. Damit wird:

$$\alpha_{\text{hel.}} - \alpha_{\text{geoz.}} = p_* R (\cos \odot \sin \alpha - \sin \odot \cos \varepsilon \cos \alpha) \sec \delta$$

$$\delta_{\text{hel.}} - \delta_{\text{geoz.}} = p_* R \{(\cos \varepsilon \sin \alpha \sin \delta - \sin \varepsilon \cos \delta) \sin \odot + \sin \delta \cos \alpha \cos \odot\}.$$

In ekliptikalen Koordinaten ist einfacher

$$\lambda_{\text{hel.}} - \lambda_{\text{geoz.}} = p_* R \sin (\lambda - \odot) \sec \beta$$
$$\beta_{\text{hel.}} - \beta_{\text{geoz.}} = p_* R \cos (\lambda - \odot) \sin \beta.$$

Hierin bezeichnet p_* den Winkel, unter welchem die mittlere Entfernung Erde—Sonne von dem Stern aus erscheint, kurz die *Parallaxe* des Sterns.

Reduktion auf den scheinbaren Ort.

Zusammenfassend folgt:

Die Beobachtung eines Gestirns, befreit von den Instrumentalfehlern, der Refraktion und der täglichen Aberration, gibt die wahren (d. h. auf das wahre Äquin. des Beobachtungsmoments bezogenen) Koordinaten seines scheinbaren Orts; gesucht werden die mittleren (d. h. auf ein festes, mittleres Äquin. bezogenen) Koordinaten seines wahren Orts. Zu dem Zwecke hat man bei Fixsternen zunächst die jährliche Aberration und — für die wenigen Sterne, deren Parallaxen einen verbürgten Wert haben, — die jährliche Parallaxe anzubringen; man erhält dadurch den wahren heliozentrischen Ort, bezogen auf das wahre Äquin. der Beobachtungsepoche. Bei den Körpern des Sonnensystems hat man nur die tägliche Parallaxe, berechnet für die Beobachtungszeit, anzubringen, um wahre geozentrische Örter, bezogen auf das wahre Äquin. der Beobachtungszeit, und gültig für die um die Lichtzeit verminderte Beobachtungszeit zu erhalten. Die Beseitigung der Nutationsbeträge überträgt dann die Koordinaten auf das momentane mittlere Äquin., von wo aus man sie durch Berücksichtigung der Präzession auf das mittlere Äquin. des Jahresanfangs (annus fictus) und schließlich auf das einer festen Normalepoche zu übertragen pflegt. — Um umgekehrt die Theorie, die die mittleren Koordinaten der wahren Örter, auf ein Normaläquin. bezogen, gibt, mit den Beobachtungen vergleichbar zu machen, bezieht man sie zunächst durch Berücksichtigung des Präzessionseffekts auf das mittlere Äquin. des Jahresanfangs. Die weiteren Reduktionen werden durch sachgemäße Umkehrung des soeben erörterten Verfahrens erhalten.

Bei Fixsternen vereinigt man die Einzelreduktionen:

vom mittleren Äquin. des Jahresanfangs auf das momentane mittlere Äquin.,

von diesem auf das momentane wahre Äquin., und

die Wirkung der Aberration

zur *Reduktion auf den scheinbaren Ort* (Reductio ad locum apparentem, Red. a. l. app.). Sie läßt sich, wenn mit t die seit dem Beginn des annus fictus verflossene Zeit in Teilen des tropischen Jahres, mit α', δ' die wahren Koordinaten des scheinbaren Orts, mit α, δ die mittleren (d. h. auf das mittlere Äquin.

des Jahresanfangs bezogenen) Koordinaten des wahren Orts bezeichnet werden, in folgende Formen bringen.

Erste Form.

$$\alpha' - \alpha = a\,A + b\,B + c\,C + d\,D + E$$
$$\delta' - \delta = a' A + b' B + c' C + d' D;$$

hierin sind:

$$a = m + n \sin\alpha \operatorname{tang}\delta \qquad a' = n \cos\alpha$$
$$b = \cos\alpha \operatorname{tang}\delta \qquad b' = -\sin\alpha$$
$$c = \cos\alpha \sec\delta \qquad c' = \operatorname{tang}\varepsilon \cos\delta - \sin\alpha \sin\delta$$
$$d = \sin\alpha \sec\delta \qquad d' = \cos\alpha \sin\delta$$

$$\begin{aligned} A = t &- (0.34215 + 0.00031\,T) \sin \Omega + 0.00415 \sin 2\,\Omega \\ &- 0.02526 \sin 2\,L + 0.00251 \sin g' \\ &- 0.00099 \sin (2\,L + g') + 0.00042 \sin (2\,L - g') \\ &+ 0.00025 \sin (2\,L - \Omega) + 0.00010 \sin (2\,\omega + \Omega) \\ &- 0.00405 \sin 2\,☾ + 0.00135 \sin g - 0.00068 \sin (2\,☾ - \Omega) \\ &- 0.00052 \sin (2\,☾ + g) + 0.00030 \sin (2\,☾ - 2\,L - g) \\ &+ 0.00023 \sin (2\,☾ - g) + 0.00012 \sin (2\,☾ - 2\,L) \end{aligned}$$

$$\begin{aligned} B = &- (9''.210 + 0''.0009\,T) \cos \Omega + 0''.090 \cos 2\,\Omega \\ &- 0''.551 \cos 2\,L - 0''.022 \cos (2\,L + g') + 0''.009 \cos (2\,L - g') \\ &+ 0''.007 \cos (2\,L - \Omega) + 0''.003 \cos (2\,\omega + \Omega) \\ &- 0''.089 \cos 2\,☾ - 0''.018 \cos (2\,☾ - \Omega) \\ &- 0''.011 \cos (2\,☾ + g) + 0''.005 \cos (2\,☾ - g) \end{aligned}$$

$$E = - 0''.044 \sin \Omega + 0''.001 \sin 2\,\Omega - 0''.003 \sin 2\,L$$
$$C = - 20''.47 \cos ⊙ \cos \varepsilon$$
$$D = - 20''.47 \sin ⊙.$$

Die Beziehung zu den früheren Bezeichnungen ist gegeben durch:

$$A = t + \frac{1}{n} \sin\varepsilon\, \Delta\psi$$
$$B = -\Delta\varepsilon$$
$$E = (\cos\varepsilon - \frac{m}{n} \sin\varepsilon)\, \Delta\psi.$$

Zweite Form.

$$\alpha' - \alpha = f + g \sin (G + \alpha) \operatorname{tang}\delta + h \sin (H + \alpha) \sec\delta$$
$$\delta' - \delta = g \cos (G + \alpha) + h \cos (H + \alpha) \sin\delta + i \cos\delta$$

Hierin haben f, g, h, i, G, H die Bedeutung:

$$f = m\,A + E \qquad i = C \operatorname{tang}\varepsilon$$
$$g \sin G = B \qquad h \sin H = C$$
$$g \cos G = n\,A \qquad h \cos H = D.$$

Die erste Form wird hauptsächlich verwendet, wenn man für einen Stern eine ganze Reihe von Örtern rechnen muß, hingegen wendet man besser die zweite Form an, wenn es gilt, für einen Zeitpunkt mehrere Sterne zu reduzieren. — Die Glieder mit A, B, E, resp. f, g, G stellen den Einfluß der Präzession und Nutation, die Glieder mit C, D, resp. i, h, H den der Aberration dar.

Die vorstehenden Differential-Näherungsformeln reichen für polnahe Sterne nicht mehr aus. Bezeichnet man für diese die nach den gewöhnlichen Formeln berechneten Reduktionsbeträge mit $\Delta\alpha_0$, $\Delta\delta_0$, so geben die Gleichungen von Fabritius:

$$\Delta\alpha = \Delta\alpha_0 + [4.6856 - 10] \operatorname{tg} \delta_0 \, \Delta\alpha_0 \, \Delta\delta_0$$
$$\Delta\delta = \Delta\delta_0 - [6.7367 - 10] \sin\delta_0 \cos\delta_0 \, (\Delta\alpha_0)^2,$$

die wegen der höheren Glieder verbesserten Werte der Red. ad l. app. Die Zahlen in eckigen Klammern sind Logarithmen.

Inwieweit die im obigen angeführten Ausdrücke in den Ephemeriden und Tabellen des Jahrbuchs zur Anwendung gelangt sind, ist im folgenden ausführlich angegeben.

Besondere Erläuterungen zu den Ephemeriden und Tafeln des Jahrbuchs.

Das Jahrbuch gibt die Örter der Wandelsterne in geozentrischen und in heliozentrischen Koordinaten, die geozentrischen sind, abgesehen von Länge und Breite der Sonne, äquatoriale und im allgemeinen auf das instantane wahre Äquinoktium bezogen, die heliozentrischen sind ekliptikale und auf ein mittleres Normal-Äquinoktium bezogen. Die Zeitpunkte, für die sie gelten, sind, wenn nicht ausdrücklich eine andere Zeit angegeben wird, in mittlerer Berliner Sonnenzeit ausgedrückt.

Die Örter der Fixsterne sind einmal als wahre, auf das mittlere Äquinoktium des Jahresanfangs bezogen, und dann in Ephemeridenform als scheinbare, auf das instantane wahre Äquinoktium bezogen, gegeben.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Reduktionselemente (S. 1).

Diese Zusammenstellung gibt für die mittleren Mittage, von 10 zu 10 Tagen fortschreitend:

1) Die *mittlere Schiefe der Ekliptik* (s. S. [5]).

2) Die *wahre Schiefe der Ekliptik*, entstanden aus der vorhergehenden durch Hinzufügung der Hauptglieder der Nutation in Schiefe, nämlich: $+0''.5519 \cos 2\odot + 0''.0092 \cos(\odot + 281^\circ\, 26') + 9''.2101 \cos \Omega - 0''.0895 \cos 2\Omega$.

3) Die (allgemeine) *Präzession in Länge,* gerechnet vom Anfang des annus fictus an (s. S. [5]).

4) Die Hauptglieder der *Nutation in Länge*, das ist wahre minus mittlere Länge, nämlich:

$$-1''.2725 \sin 2 \odot + 0''.1477 \sin (\odot + 81^\circ 47')$$
$$-17''.2337 \sin \Omega + 0''.2070 \sin 2 \Omega.$$

Die kurzperiodischen Glieder in Schiefe und Länge, die hier bei dem 10-tägigen Intervall naturgemäß fortgelassen sind, finden sich in der letzten Kolumne der Sonnenephemeride von Tag zu Tag aufgeführt.

5) Die *Aberration der Sonne* in Länge, berechnet aus $20''.47 : R$.

6) Die *Äquatorial-Horizontalparallaxe der Sonne*, berechnet aus $8''.80 : R$.

Sonnenephemeride (S. 2—41).

Der erste Teil der Sonnenephemeride (S. 2—21) gibt auf den linken Seiten für jeden mittleren Berliner Mittag:

1) Die geozentrischen, äquatorialen Koordinaten (α, δ) des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, weggelassen.

2) Die Zeitgleichung = Mittlere Zeit — Wahre Zeit.

3) Die Durchgangsdauer der Sonnenscheibe durch den Meridian in Sternzeit, berechnet aus

$$\frac{2}{15} H \left(1 + \frac{\Delta \alpha}{86\,400}\right) \sec \delta.$$

[$\Delta \alpha$ tägliche Bewegung der Sonne in AR].

4) Den scheinbaren geozentrischen Halbmesser H der Sonnenscheibe, berechnet aus $959''.63 : R$ (nach Auwers).

Die rechte Seite gibt:

1) Die geozentrischen ekliptikalen Koordinaten (λ, β) des wahren Sonnenorts, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie $\log R$. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

2) Die Sternzeit im mittleren Berliner Mittag.

Um für einen anderen Erdort der östlichen Längendifferenz ΔL (in Stunden) gegen Berlin die Sternzeit in seinem mittleren Mittag zu erhalten, ist von diesen Angaben abzuziehen: $9^s.8565\, \Delta L$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten (S. 465—472).

3) Die von der Mondlänge abhängigen kurzperiodischen Glieder der Nutation

in Länge: $-0''.2038 \sin 2 ☾ + 0''.0676 \sin g$
und Schiefe: $+0''.0884 \cos 2 ☾$.

Auf S. 22—41 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen, geozentrischen, äquatorialen Sonnenkoordinaten für 0^h und 12^h mittlere Berliner Zeit mit ihren ersten Differenzen; daneben stehen von Tag zu Tag ihre Reduktionen auf das mittlere Äquinoktium des benachbarten Jahrzehntanfanges 1910.0 in Einheiten der siebenten Dezimale; sie dienen zur bequemen Verbindung der Koordinatenangaben aufeinanderfolgender Jahre bei Rechnungen über kleine Planeten und Kometen.

Aus λ und β, der Länge und Breite der Sonne, werden die rechtwinkligen Koordinaten berechnet nach:

$$X = R \cos \lambda$$
$$Y = R \sin \lambda \cos \varepsilon - 19.3 R\beta \text{ [Einheiten der 7. Dezimale]}$$
$$Z = R \sin \lambda \sin \varepsilon + 44.5 R\beta \text{ [» » » »].}$$

Die Reduktionen dieser *auf das wahre Äquinoktium bezogenen Größen* auf das mittlere Äquinoktium des Jahresanfangs sind:

$$dX = Y \sec \varepsilon \, d\lambda$$
$$dY = -X \cos \varepsilon \, d\lambda + Z d\varepsilon + 19.3 R d\beta$$
$$dZ = -X \sin \varepsilon \, d\lambda - Y d\varepsilon - 44.5 R d\beta;$$

hierin sind:

$d\lambda$ = Präzession + Nutation in Länge }
$d\varepsilon$ = Präzession + Nutation in Schiefe } in Bogenmaß,
$d\beta$ = Präzession in Breite, in Bogensekunden.

Die Reduktion der rechtwinkligen Sonnenkoordinaten vom mittleren Äquinoktium t_1 auf das mittlere t_2 $(\tau = t_2 - t_1)$ geschieht nach den Formeln:

$$dX_0 = m Y_0 \tau - n Z_0 \tau - \frac{1}{2}(m^2 + n^2) X_0 \tau^2$$
$$dY_0 = m X_0 \tau - \frac{1}{2} m^2 Y_0 \tau^2 - \frac{1}{2} mn Z_0 \tau^2$$
$$dZ_0 = n X_0 \tau - \frac{1}{2} mn Y_0 \tau^2 - \frac{1}{2} n^2 Z_0 \tau^2;$$

m und n (in Bogenmaß) sind die einjährigen Präzessionsbeträge in Rektaszension und Deklination.

Mondephemeride (S. 42—81).

Die linken Seiten der Mondephemeride geben für 0^h und 12^h mittlere Zeit Berlin:

1) Die wahre Rektaszension und Deklination des Mondes mit den ersten Differenzen.

2) Den log. Sinus der Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den scheinbaren geozentrischen Mondhalbmesser $r_☾$, berechnet aus

$$\sin r_☾ = 0.2725 \sin p_☾.$$

Die rechten Seiten enthalten für den oberen *(O)* oder unteren *(U)* Berliner Meridiandurchgang des Mondes:

1) Die mittlere Berliner Zeit dieses Durchgangs.

2) Die Rektaszension und Deklination des Mondes.

3) Die halbe Durchgangsdauer der Mondscheibe in Sternzeit, berechnet mit Hilfe des geozentrischen Halbmessers des Mondes und der stündlichen Bewegung in AR.

4) Die AR.-Bewegung des sichtbaren Mondrandes für eine Stunde Länge, d. h. für das Zeitintervall, welches zwischen den beiden Durchgängen des Mondrandes durch zwei um je eine halbe Stunde östlich und westlich von Berlin gelegene Meridiane verfließt.

Auf S. 80 und 81 finden sich noch die Epochen der Phasen, sowie des Perigäums und Apogäums des Mondes.

Ephemeride für den Mondkrater Mösting A (S. 82—86).

Die Ephemeride des Mondkraters Mösting A dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Meridianbeobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschlufs an Mösting A.

Sie gilt für die mittlere Mitternacht in Berlin und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektaszension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Meridianbeobachtungen des Kraters interpoliere man unter strenger Berücksichtigung der zweiten Differenzen $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Zeit des Durchgangs des Kraters durch den Meridian. Dann befreie man die beobachtete Deklination des Kraters von der Höhenparallaxe, indem man diese mit dem Argument der wahren Kraterdeklination (nicht Monddeklination), unter Benutzung von p_k, berechnet. Bringt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ an die Beobachtung an, so hat man die geozentrische AR. und Dekl. des Mondes für die Beobachtungszeit, d. h. für die Kulmination des Kraters (nicht des Mondes).

Für Beobachtungen aufserhalb des Meridians interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Zeit der Beobachtung. Man findet dann die gesehene, mit Parallaxe behaftete Differenz $\alpha'_☾ - \alpha'_k$ offenbar, indem man die mit $p_☾$ und dem Mondort berechnete Parallaxe $\alpha'_☾ - \alpha_☾$ des Mondes

in AR. zu $\alpha_{☾} - \alpha_k$ addiert und dann die mit p_k und dem Kraterort berechnete Parallaxe $\alpha'_k - \alpha_k$ des Kraters in AR. subtrahiert. Es ist nämlich:

$$\alpha'_{☾} - \alpha'_k = \alpha_{☾} - \alpha_k + (\alpha'_{☾} - \alpha_{☾}) - (\alpha'_k - \alpha_k)$$

und ebenso $\delta'_{☾} - \delta'_k = \delta_{☾} - \delta_k + (\delta'_{☾} - \delta_{☾}) - (\delta'_k - \delta_k)$.

Verbindet man die so erhaltenen scheinbaren Abstände zwischen der Mondmitte und Mösting A mit mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die scheinbare Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von $\alpha'_{☾}$ und $\delta'_{☾}$, mit der auf Seite 87 angegebenen Lage des Mondäquators und der mit den Angaben auf Seite 452 berechneten physischen Mondlibration die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die scheinbare AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$\begin{aligned} s \sin \pi_m &= (\alpha' - \alpha'_{☾}) \cos \tfrac{1}{2} (\delta' + \delta'_{☾}) \\ s \cos \pi_m &= (\delta' - \delta'_{☾}) \\ \pi &= \pi_m - \tfrac{1}{2} (\alpha' - \alpha'_{☾}) \sin \tfrac{1}{2} (\delta' + \delta'_{☾}) \\ \sin (K + s) &= \sin s \operatorname{cosec} h'. \end{aligned}$$

h' ist der scheinbare Radiusvector des Kraters, der aus h, dem vom Erdmittelpunkt aus gesehenen Radiusvector, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers eingesetzt werden.

$$\begin{aligned} \sin d &= -\sin \delta'_{☾} \cos K + \cos \delta'_{☾} \sin K \cos \pi \\ \cos d \cos (a - \alpha'_{☾}) &= -\cos \delta'_{☾} \cos K - \sin \delta'_{☾} \sin K \cos \pi \\ \cos d \sin (a - \alpha'_{☾}) &= \sin K \sin \pi \\ \sin \beta &= \sin d \cos i - \cos d \sin i \sin (a - ☊') \\ \cos \beta \sin \lambda' &= \sin d \sin i + \cos d \cos i \sin (a - ☊') \\ \cos \beta \cos \lambda' &= \cos d \cos (a - ☊'). \end{aligned}$$

Die Gröfsen i und ☊' entnehme man der Seite 87.

$$\lambda = \lambda' - 180° - L - (\varDelta - ☋).$$

L, die mittlere Länge des Mondes, findet sich auf Seite 88, wie $\varDelta - ☋$ auf Seite 87.

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einflufs der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$\begin{aligned} d\lambda &= +12'' \sin M - 59'' \sin M' - 18'' \sin 2\omega \\ &\quad + \operatorname{tg}\beta [-108'' \cos(\omega + \lambda) + 37'' \cos(\omega - \lambda) - 11'' \cos(M + \omega - \lambda)] \\ d\beta &= +108'' \sin(\omega + \lambda) + 37'' \sin(\omega - \lambda) - 11'' \sin(M + \omega - \lambda). \end{aligned}$$

Die Grössen M, M', ω sind der Seite 452 zu entnehmen.

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta.$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelte Konstanten (Selenographische Koordinaten III, Seite 49) zugrunde:

$$\lambda_0 = -5^\circ\ 10'\ 13'', \qquad \beta_0 = -3^\circ\ 10'\ 58''$$

$h =$ 15′ 34″.71 entsprechend der Parallaxe 57′ 2″.27.

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -12''\sin M + 59''\sin M' + 18''\sin 2\,\omega$$
$$d\beta = -145''\sin\omega + 11''\sin(M + \omega)$$

so dafs die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Lage des Mondäquators. Mondbewegung (S. 87 und 88).

Die beiden Tafeln auf Seite 87 und 88 dienen, neben dem soeben angegebenen Zweck, zur Berechnung der optischen Libration des Mondes (in Verbindung mit der Tafel auf Seite 453 und 454) und zur Ermittelung des Winkels C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Deklinationskreise bildet.

Die Formeln für die Berechnung der optischen Libration sind auf Seite 454 vollständig aufgeführt. Der Winkel C ergibt sich aus folgender Formel:

$$\sin C = -\sin i \frac{\cos(l + \Delta - \mho)}{\cos\delta} = -\sin i \frac{\cos(\alpha - \Omega')}{\cos b'},$$

worin

i . . . . die Neigung des Mondäquators gegen den Erdäquator,
Δ . . . das Stück des Mondäquators vom aufsteigenden Knoten im Erdäquator bis zum aufsteigenden Knoten in der Ekliptik,
Ω' . . . den aufsteigenden Knoten des Mondäquators im Erdäquator,
$\mho$ . . . den aufsteigenden Knoten des Mondäquators in der Ekliptik,
α, δ . . Rektascension und Deklination des Mittelpunktes der Mondscheibe, gesehen vom Beobachtungsort aus,
l', b' . . die optische Libration in selenographischer Länge und Breite,
l_0 . . . die mittlere Länge des Mondes

bezeichnen und $l = l' + l_0$ gesetzt wird.

C wird vom nördlichen Teil des Deklinationskreises nach Osten positiv gerechnet.

Bei der Berechnung von i, Δ, Ω' ist die Neigung des Mondäquators gegen die Ekliptik nach F. Hayn (Selenographische Koordinaten III, Seite 49) zu $J = 1° 32' 6''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die in der ersten Kolumne der Tafel auf Seite 88 aufgeführte Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik dient auch zur Berechnung der Nutationsausdrücke.

Auf- und Untergang von Sonne und Mond (S. 89—93).

Die Zeiten der Auf- und Untergänge von Sonne und Mond für Berlin in mittlerer Berliner Zeit, welche als Grundlage für die Kalenderrechnungen benachbarter Orte häufig Verwendung finden, sind berechnet mit Berücksichtigung der Horizontalparallaxe 57′ und der Horizontalrefraktion 33′.

Planetenephemeriden (S. 94—148).

Die geozentrischen Örter der Planeten sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen mit ihren ersten Differenzen gegeben, und zwar in wahren, d. h. auf das momentane Äquinoktium bezogenen Koordinaten des wahren Orts, für 0^h mittlere Berliner Zeit. Zu ihrer Vergleichung mit den Beobachtungen hat man nur die Beobachtungszeiten um die jedesmalige Lichtzeit ($498^s.4\,\Delta$) zu vermindern. Die hierzu, sowie zur Berechnung der Parallaxe ($8''.80 : \Delta$) erforderliche Kenntnis der geozentrischen Entfernung Δ des Planeten (Δ in Einheiten der mittleren Entfernung Sonne—Erde) vermittelt die »Log. Δ« überschriebene Kolumne.

Die vorletzte Kolumne jeder Seite enthält unter der Bezeichnung »Östlicher Stundenwinkel« des Planeten einen genäherten Wert für die mittlere Zeit seiner oberen Kulmination. Die letzte Kolumne gibt den halben Tagbogen für die im Berliner Mittag stattfindende Deklination und die Polhöhe von Berlin, gerechnet unter Berücksichtigung der Horizontalrefraktion 33′.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für Merkur	Halbmesser	. . . . .	3″.34		
» Venus	»	. . . . .	8 .78		
» Mars	»	. . . . .	4 .68		
» Jupiter	»	(Äquatorial)	99 .8,	(Polar)	92″.6
» Saturn	»	(Äquatorial)	81 .4,	(Polar)	73 .4
» Uranus	»	. . . . .	34 .7		
» Neptun	»	. . . . .	45		

Die heliozentrischen Ephemeriden der Hauptplaneten (S. 144—148) geben den Log. des Radius vector, die Länge in der Bahn, deren Reduktion auf die Ekliptik und die Breite, außerdem bei den Planeten Jupiter, Saturn, Uranus und Neptun noch den Winkel B_0, welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten unter den Kolumnen hinzugefügten Angaben über ☊ und i gelten.

Bei Jupiter, Saturn, Uranus und Neptun stellen ☊ und i die Bahnlage für die Epoche und das Äquinoktium des benachbarten Jahrzehntanfangs dar; bei Merkur, Venus und Mars ist die Epoche der Jahresanfang, das Äquinoktium das des benachbarten Jahrzehntanfangs.

(Über die Verwendung von B_0 bei Störungsrechnungen siehe die ausführlichere Erläuterung im Jahrbuch für 1880 und 1881.)

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben ist ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die unten beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden, für Mars und Saturn sind sie identisch mit den aus Trabantenbeobachtungen von A. Hall, resp. von Bessel abgeleiteten Werten, für die anderen Planeten beruhen sie auf den Störungen, die sie ausüben. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, heliozentrischer Radius vector und Länge sich aber auf den Erdmittelpunkt und nicht auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 149—172).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Recheninstituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch mechanische Quadratur berechnet.

Scheinbare Örter von 573 Fixsternen (S. 173—371).

Die scheinbaren Örter sind für den Moment der oberen Kulmination im Berliner Meridian gegeben, und zwar zunächst für 18 weniger als 10° von den Polen entfernte Sterne von Tag zu Tag, in Rektaszension auf $0^s.01$, in Deklination (im Einklang damit) auf $0''.01$ angesetzt. Die Anordnung ist eine derartige, daß für jeden Zeitraum einer Seite sämtliche 9 (entweder nördliche oder südliche) Polsterne nebeneinander aufgeführt sind, wie es für den Gebrauch am geeignetsten erscheint. Hierbei sind auch die Glieder zweiter Ordnung der »Red. ad. l. app.« nach besonders dafür hergestellten handschriftlichen Tafeln berücksichtigt.

Es folgen die scheinbaren Örter der übrigen 555 Sterne von 10 zu 10 Tagen, in Rektaszension auf $0^s.01$, in Deklination auf $0''.1$ angesetzt; sie beziehen sich auf die Epoche derjenigen oberen Kulmination, welche an dem nebenstehenden wahren Sonnentage stattfindet. Der Übergang einer Kulmination auf den vorangehenden wahren Sonnentag ist dadurch bezeichnet, daß das Datum des Tages, an welchem 2 obere Kulminationen stattfinden, vor den Rektaszensionen aufgeführt ist.

Am Fuß der Ephemeriden ist der mittlere Ort eines jeden Sterns für den Anfang des Jahres, außer für die Polsterne, wieder angegeben, dazu die Werte von $\operatorname{tg}\delta$ und $\sec\delta$ (bei den Polsternen für die Deklination der Seitenmitte giltig), welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden.

Die kurzperiodischen Mondglieder der Nutation sind durchweg unberücksichtigt geblieben, können aber in den Fällen, in denen ihre Mitnahme wünschenswert erscheint, nach den Formeln auf S. 372 und mit Hülfe der Tafel auf S. 384 und 385 berechnet worden. Nur bei den Polsternen sind diese Glieder, mit Ausnahme von f', schon berechnet, aber gesondert unter der Überschrift ☾ hinzugefügt.

Die jährliche Parallaxe ist bei folgenden Sternen, bei denen sie $0''.20$ übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59	τ Ceti	mit $0''.31$	Nr. 538	α Centauri	mit $0''.75$
Nr. 257	α Can. maj.	» 0.38	Nr. 745	α Aquilae	» 0.23
Nr. 291	α Can. min.	» 0.33	Nr. 793	61 Cygni	» 0.30

bereits berücksichtigt. Von den nicht mit Ephemeriden versehenen Sternen des F. K. besitzt noch Nr. 825 ε Indi eine Parallaxe von $0''.25$.

Reduktionstafeln (S. 372—397).

Auf die scheinbaren Örter der Sterne folgt S. 372 eine Zusammenstellung der Formeln, nach welchen die Reduktionskonstanten der darauf folgenden Tafeln berechnet sind.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer ersten Form, A, B, C, D, E gegeben für $18^h 40^m$ Sternzeit des Normalmeridians $= 6^h 38^m.9$ Sternzeit Berlin:

1) Auf S. 373 im Intervall von 10 Sternzeittagen, ohne Berücksichtigung der von der Mondlänge abhängigen Mondglieder.

Diese Tafel dient hauptsächlich zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge. Wegen ihrer logarithmischen Form ist sie zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen, unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 386—395 für jeden Sterntag, mit Berücksichtigung der kurzperiodischen Mondglieder. Um den Gebrauch dieser Tafel zu

erleichtern, sind jedesmal an derjenigen Stelle, wo die Werte einer der Konstanten durch Null gehen, neben den logarithmischen Angaben die Numeri der betreffenden Konstante beigesetzt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende mittlere Zeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz mit Berlin, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der zweiten Form, f, g, G, h, H, i, sind S. 374—383 von Tag zu Tag für die mittlere Mitternacht Berlin ohne die von der Mondlänge abhängigen Nutationsglieder gegeben. In der letzten Kolumne ist jedoch, um sie gegebenenfalls berücksichtigen zu können, unter dem Zeichen ☾ das Argument »mittlere Mondlänge« für die Tafeln der Seiten 384 und 385 angeführt, wobei die Peripherie in 1000 Teile geteilt gedacht ist.

Diese Tafeln (S. 384 und 385) enthalten die Hülfsmittel zur Berücksichtigung der schnell veränderlichen Nutationsglieder bei der Red. ad l. app. in beiden Formen auf Grund der Formeln:

$$
\begin{aligned}
A' &= -0.00405 \sin 2 ☾ + 0.00134 \sin (☾ - 163^\circ 40') \\
B' &= -0''.0884 \cos 2 ☾ \\
f' &= -0''.1865 \sin 2 ☾ + 0''.0618 \sin (☾ - 163^\circ 40') \\
g' \sin G' &= -0''.0884 \cos 2 ☾ \\
g' \cos G' &= -0''.0811 \sin 2 ☾ + 0''.0269 \sin (☾ - 163^\circ 40').
\end{aligned}
$$

Die hauptsächlichste Vernachlässigung liegt darin, daß als Wert des Perigäums der Mondbahn für das ganze Jahr der für 1913.5 berechnete Wert: $\Gamma' = \Omega + \omega = 163^\circ 40'$ angenommen ist.

Die Tafel auf S. 396 und 397 dient zur Übertragung wahrer Örter von dem *mittleren* Äquinoktium des benachbarten Jahrzehntanfangs auf das *instantane* wahre Äquinoktium.

Sonnen- und Mondfinsternisse (S. 398—405).

Die Sonnenfinsternisse sind in der Form berechnet worden, welche Hansen (Theorie der Sonnenfinsternisse und verwandten Erscheinungen. Abhandlungen der K. Sächsischen Gesellschaft der Wissenschaften IV) der Behandlung dieses Problems gegeben hat.

Die Bezeichnungen und Einführungen von Hansen sind auch im Jahrbuch bei der tabellarischen Aufstellung der Rechnungsresultate durchgängig beibehalten worden, so dafs es genügen wird, zu ihrer Erläuterung auf die erwähnte Abhandlung zu verweisen (siehe besonders die übersichtliche Anführung der einzelnen Formeln von Seite 434 an).

Es wird hier nur erforderlich sein, in aller Kürze anzugeben, auf welche Weise man mit Hilfe der auf Seite 399, 401 und 404 gegebenen Hansenschen Elemente der Sonnenfinsternisse Zeit und Umstände der Finsternis für jeden Ort innerhalb der Grenzkurven berechnen kann.

Der Ort sei gegeben durch seine (nach Osten gezählte) Länge von Berlin . . . λ, oder von Greenwich . . . $\lambda_\circ = \lambda + 13^\circ\, 23'.7$ und durch seine geographische Breite φ.

Man bilde zuerst $\tang \varphi_1 = (1 - c) \tang \varphi$, wo c die Abplattung der Erde ist, also $\log (1 - c) = 9.99855$ angenommen werden kann, sodann:

$$\xi = \cos \varphi_1$$
$$\eta = (1 - c) \sin \varphi_1 .$$

Hierauf mufs man für die Epoche des fraglichen Phänomens, sei es nun erste und letzte, äufsere oder innere Berührung, oder gröfste Phase, einen Näherungswert der wahren Ortszeit annehmen.

Hierzu kann man die anderweitigen Angaben des Jahrbuchs, insbesondere die eventuelle Angabe der Epochen des Eintritts der gröfsten Phase auf der Zentrallinie zu Rate ziehen. Ein für die erste Annäherung hinreichender und bequemer Näherungswert der Ortszeit ist $\mu + \lambda$, wo μ die wahre Berliner Zeit der geozentrischen gröfsten Phase ist. (Siehe Elemente der Finsternis.)

Sei der Näherungswert der Ortszeit $t_\circ$, so bilde man mit Hülfe der in dem Elementenverzeichnis des Jahrbuchs gegebenen Werte von γ, μ, n, u', f, δ', g, G, k, K, welche man beiläufig mit dem Argumente der wahren Berliner Zeit $\tau = t_\circ - \lambda$ entnimmt, folgende Ausdrücke, welche als gemeinsame Grundlage der Annäherung für die Berechnung aller Phasen dienen können:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_\circ)$$
$$m \cos M = (t_\circ - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_\circ)$$
$$m' \sin M' = - \varkappa \xi \sin g \cos (G + t_\circ)$$
$$m' \cos M' = n - \varkappa \xi \sin k \sin (K + t_\circ)$$
$$u_\circ = u' - (\eta \sin \delta' + \xi \cos \delta' \cos t_\circ) \tang f$$

wo $$\varkappa = \frac{15 \,.\, 3600}{206265} \qquad \lg \varkappa = 9.41797 .$$

Bei der Entnahme von u' und f hat man für innere Berührungen u'_i und f_i, für äufsere Berührungen u'_a und f_a zu wählen.

Hierauf berechnet man:

$$\sin \chi' = \frac{m}{u_\circ} \sin (M + M')$$
$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u_\circ}{m'} \cos \chi'$$

wobei man, da zu $\sin \chi'$ ein negativer und ein positiver Wert von $\cos \chi'$ sich ergibt, zwei Werte von t (zur ersten oder letzten Berührung gehörig) findet.

Mit jedem dieser beiden Werte von t rechnet man nun in zweiter Annäherung, wobei die Elemente γ, μ, n, u', f, δ', g, G, k, K mit den wahren Berliner Zeiten $t-\lambda$ aus dem Elementenverzeichnis zu entnehmen sind:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$

$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$

$$m' \sin M' = - \varkappa' \xi \sin g \cos [G + \frac{1}{2} (t_0 + t)]$$

$$m' \cos M' = n - \varkappa' \xi \sin k \sin [K + \frac{1}{2} (t_0 + t)]$$

$$u = u_0 + \varkappa' \xi \cos \delta' \operatorname{tang} f \sin \frac{1}{2} (t_0 + t) \frac{(t-t_0)}{15}$$

wo
$$\varkappa' = 30 \cdot \frac{\sin \frac{1}{2} (t-t_0)}{t-t_0};$$

$(t - t_0)$ ist hierbei stets in Graden auszudrücken.

Mit den so gefundenen m, m', M, M' und u bildet man dann wieder

$$\sin \chi' = \frac{m}{u} \sin (M+M')$$

$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u}{m'} \cos \chi'.$$

Von den beiden Lösungen für t benutzt man bei der zweiten und den folgenden Näherungen für den Eintritt natürlich nur die zum Eintritt, ebenso bei den Näherungen für den Austritt die zum Austritt gehörige.

Die in zweiter oder dritter Näherung gefundenen Werte t sind meistens schon genau genug die wahren Ortszeiten des gesuchten Eintritts oder Austritts, und die Positionswinkel der Eintritts- und Austrittspunkte (am Sonnenmittelpunkt von der Richtung zum Nordpol nach der Seite der wachsenden Rektaszensionen oder nach Osten hin gezählt) sind mit den beiden Werten von χ', die der Sinus ergibt:

$$\vartheta = N' + M' - \chi',$$

wo N' aus dem Elementenverzeichnis zu entnehmen ist.

Um die Zeit der gröfsten Phase zu berechnen, kann man zunächst die Werte t_0, m, m', M, M' aus der obigen ersten Annäherung benutzen und damit bilden:

$$t_1 = t_0 - 15 \frac{m}{m'} \cos (M + M').$$

Mit dem so gefundenen Werte t_1 bildet man für die Epoche $t_1 - \lambda$ wieder die Werte der Elemente und berechnet damit in zweiter Annäherung die Werte m, m', M, M', indem man in den Gleichungen der ersten Annäherung t_0 durchgängig mit t_1 vertauscht. Man hat dann den genaueren Wert der Ortszeit der gröfsten Phase:

$$t = t_1 - 15 \frac{m}{m'} \cos (M + M')$$

und zur Kontrolle für diese Zeit $M + M' = 90°$ oder $= 270°$, je nachdem der Mondmittelpunkt nördlich oder südlich vom Sonnenmittelpunkt vorbeigeht.

Zur Bestimmung der Gröfse der Verfinsterung hat man zugleich:

$$u = m,$$

welcher Wert bei zentraler Verfinsterung = 0 wird.

Die Gröfse in Teilen des Durchmessers i findet man mit einer für diese rohe Angabe genügenden Näherung:

$$i = \frac{u'_a - u}{u'_a - u'_i} \cdot \cdot \cdot \cdot$$

Zu den Angaben über die Mondfinsternisse (Seite 398 und 403) sei bemerkt, dafs als Vergröfserungsfaktor des Erdschattens nach J. Hartmann $\frac{1}{50}$ angenommen ist.

Sternbedeckungen durch den Mond (S. 406—415).

Bei den Sternbedeckungen findet man zunächst (Seite 406 und 407) ein Verzeichnis derjenigen helleren Sterne (bis zur 5.5. Gröfse), welche im Laufe des Jahres 1913 für irgend einen Ort der Erdoberfläche vom Monde bedeckt werden können. Die Angaben für die nicht dem Fundamentalkatalog des Jahrbuchs angehörenden Sterne sind dem »Preliminary General Catalogue of 6188 Stars« von L. Boss entnommen; eine Beziehung beider Systeme aufeinander hat nicht stattgefunden.

Hierauf folgen in den zweispaltigen Seiten 408—414 die Hilfsmittel zur Berechnung der einzelnen Bedeckungen:

in der 1. Kolumne die Nr. des Sterns, welcher bedeckt wird, nach dem voranstehenden Verzeichnisse;

in der 2. Kolumne die Zeit T der geozentrischen Konjunktion in AR. von Stern und Mondmittelpunkt in Monatstagen, Stunden und Minuten;

in der 3., 4. und 5. Kolumne die Werte folgender Ausdrücke:

$$q = \frac{\delta - D}{\pi} \qquad p' = \frac{\Delta\alpha \, . \cos\delta}{\pi} \qquad q' = \frac{\Delta\delta}{\pi}$$

p' und q' in Einheiten der 4. Dezimale.

In diesen Ausdrücken bedeutet:

δ die geozentrische Deklination des Mondes für die Zeit T.

D die Deklination des Sterns.

π die Äquatorial-Horizontalparallaxe des Mondes (bezw. vermindert um die Parallaxe des Planeten bei Planetenbedeckungen) für die Zeit T.

$\Delta\alpha$ und $\Delta\delta$ die Veränderung der geozentrischen Rektaszension und Deklination des Mondes (bezw. vermindert um die Veränderung des Planetenortes bei den Planetenbedeckungen), für eine Stunde mittlerer Zeit, gültig für die Konjunktionszeit T.

Nennt man ferner die geozentr. AR. des Mondes zur Zeit $T \ldots \alpha$, die AR. des Sterns $\ldots A$, den geozentr. scheinbaren Halbmesser des

Mondes ... r, die Längendifferenz des Beobachtungsortes gegen Berlin ... d (östlich positiv), die der mittleren Zeit $T + d$ entsprechende Sternzeit des Ortes ... Θ, seine geozentrische Breite ... φ', seinen geozentrischen Radius vector in Teilen des Radius des Äquators ... ϱ; setzt man endlich (nach J. Peters *Astr. Nachr.*, Bd. 138, S. 147)

$$\frac{r}{\pi} = k = 0.2725, \qquad \log k = 9.4354$$

$$\text{und } \log(15 \,.\, 3609.9 \sin 1'') = \log\lambda = 9.41916,$$

so wird die Aufgabe der Vorausberechnung der Ortszeit etc. für die betreffende Bedeckung in Verbindung mit den obigen in den Tafeln gegebenen Werten gelöst durch die Bildung folgender Ausdrücke und die Ausführung folgender Rechnungen (nach Bessels Näherungsformeln im Jahrbuch für 1831):

$$p = \frac{(\alpha - A)\cos\delta}{\pi} \quad (= 0 \text{ für das Zeitmoment } T)$$

$$u = \varrho\cos\varphi'\sin(\Theta - A)$$

$$v = \varrho\sin\varphi'\cos D - \varrho\cos\varphi'\cos(\Theta - A)\sin D$$

$$u' = \lambda\varrho\cos\varphi'\cos(\Theta - A) \qquad = \left(\frac{du}{dt}\right)$$

$$v' = \lambda\varrho\cos\varphi'\sin(\Theta - A)\sin D \qquad = \left(\frac{dv}{dt}\right)$$

$$m\sin M = p - u \qquad n\sin N = p' - u'$$

$$m\cos M = q - v \qquad n\cos N = q' - v'$$

(m und n stets positiv)

$$\tau = -\frac{m}{n}\cos(M - N).$$

Die Momente des Eintritts und des Austritts T_1 und T_2 des Sterns werden dann, wenn noch $\cos\psi = \frac{m\sin(M-N)}{k}$ (wo ψ immer kleiner als 180°) berechnet ist, gefunden durch:

$$T_1 = T + d + \tau - \frac{k}{n}\sin\psi \qquad T_2 = T + d + \tau + \frac{k}{n}\sin\psi.$$

Die Örter des Eintritts und Austritts an der Mondscheibe sind bestimmt durch ihre Positionswinkel:

$$Q_1 = N - 90^\circ + \psi \qquad Q_2 = N - 90^\circ - \psi.$$

Die so gefundenen Resultate werden indes von der Wahrheit sehr entfernt sein können, wenn die Korrektion τ, welche zu der Ortszeit der geozentrischen Konjunktion hinzugefügt werden mufs, um die Ortszeit des auf den Beobachtungsort bezüglichen kleinsten Abstandes des Sterns vom Mondmittelpunkt zu finden, sehr beträchtlich ist; mit anderen Worten, wenn an dem betreffenden Ort zur Zeit $T + d$ der Stundenwinkel des Mondes grofs ist. In diesem Falle nämlich ist hauptsächlich die Berechnung der der Zeit folgenden Veränderungen von u und v durch die

ersten Differentialquotienten u' und v' bei der starken Änderung des Winkels $(\Theta - A)$ nicht mehr genügend, sondern man mufs jetzt die zweite Näherung ausführen, indem man für die Ortszeit $T + d + \tau$ oder die Berliner Zeit $T + \tau = T_0$ berechnet:

$$p_0 = \tau p' \qquad q_0 = q + \tau q' \qquad \Theta_0 = \Theta + \tau + \varepsilon \qquad t = \Theta_0 - A$$

(wo ε die Reduktion des mittleren Zeitintervalles τ auf Sternzeit bedeutet)

$$u = \varrho \cos \varphi' \sin t$$
$$v = \varrho \sin \varphi' \cos D - \varrho \cos \varphi' \sin D \cos t$$
$$u' = \lambda \varrho \cos \varphi' \cos t$$
$$v' = \lambda \varrho \cos \varphi' \sin D \sin t.$$

Berechnet man mit diesen Werten

$$\Delta \tau = -\frac{m}{n} \cos (M - N),$$

so wird diese Näherung schon ziemlich ausreichend sein, um die Zeiten und Örter des Eintritts und Austritts zu finden, wie oben:

$$\cos \psi = \frac{m \sin (M - N)}{k}$$

$$T_{\mathrm{I}} = T + d + \tau + \Delta \tau - \frac{k}{n} \sin \psi \text{ u. s. w.}$$

Bei der Berechnung der ersten Näherung, welche τ ergibt, wird es aber nicht nötig sein, nach den ausführlichen Formeln bis

$$\tau = -\frac{m}{n} \cos (M - N)$$

zu rechnen, sondern man wird eine wesentliche Abkürzung und eine hinreichende Konvergenz der Näherung erreichen, wenn man setzt:

$$\tau = \frac{u}{p' - u'} \cdot \cdot \cdot \cdot \cdot$$

Wenn man hier noch statt des jedesmaligen, in den Elementen der Sternbedeckungen angegebenen p' den Durchschnittswert 0.5646 annimmt, läfst sich der Ausdruck

$$\tau = \frac{\varrho \cos \varphi' \sin (\Theta - A)}{0.5646 - \lambda \varrho \cos \varphi' \cos (\Theta - A)}$$

für eine bestimmte Polhöhe φ' sehr leicht mit dem Argumente des Stundenwinkels $(\Theta - A)$ in eine Hilfstafel bringen, aus der man ohne Mühe den zur ersten Näherung hinreichenden Wert von τ bei westlichem Stundenwinkel positiv, bei östlichem negativ entnimmt.

Um für jeden Ort die erste Korrektion τ in Minuten ausgedrückt zu finden, kann die Tafel Seite [35] mit dem Horizontalargument »φ'« und dem Vertikalargument »Stundenwinkel« dienen. Zur genäherten Bildung des letzteren Argumentes werden die Kolumnen der Mondephemeride, welche »Im Meridian von Berlin« überschrieben sind, von Nutzen sein können.

φ'

t	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	t
h m	m	m	m	m	m	m	m	m	m	m	h m
0 0	0	0	0	0	0	0	0	0	0	0	0 0
20	17	17	16	15	13	11	9	7	5	3	20
40	34	33	32	29	26	22	18	14	10	7	40
1 0	50	49	47	43	38	32	26	21	15	10	1 0
20	65	63	60	55	49	42	34	27	20	13	20
40	78	76	73	67	59	51	42	33	24	16	40
2 0	89	88	84	77	68	59	49	38	28	19	2 0
20	98	97	93	85	76	66	55	43	32	21	20
40	106	105	100	93	83	72	60	48	36	24	40
3 0	112	110	106	98	89	77	65	52	39	26	3 0
20	116	115	110	102	93	81	68	55	41	28	20
40	119	117	113	105	96	84	71	57	43	29	40
4 0	120	119	114	107	97	86	73	59	45	31	4 0
20	120	118	114	107	98	87	74	61	46	32	20
40	119	117	113	107	98	87	75	61	47	33	40
5 0	117	115	112	106	97	87	75	62	48	33	5 0
20	114	113	109	103	95	86	74	62	48	33	20
40	110	109	106	101	93	84	73	61	47	33	40
6 0	106	105	102	97	90	82	71	60	47	33	6 0
20	102	101	98	93	87	79	69	58	46	32	20
40		96	93	89	83	76	67	56	44	32	40
7 0			88	84	79	72	64	54	43	31	7 0
20			83	80	75	68	61	51	41	30	20
40				75	70	64	57	49	39	28	40
8 0					65	60	53	46	37	27	8 0
20						55	49	42	34	25	20
40							45	39	32	23	40
9 0							41	36	29	21	9 0
20								32	26	19	20
40								28	23	17	40
10 0								24	20	15	10 0
20									17	12	20
40									13	10	40
11 0									10	7	11 0
20									7	5	20
40										3	40
12 0										0	12 0

Für Orte, die nicht zu weit von Berlin entfernt sind, wird man aus dem für Berlin gegebenen Verzeichnis häufig schon ersehen können, ob eine Sternbedeckung stattfindet oder nicht; für näher gelegene Orte dürfte es in diesem Falle schon genügen, wenn man an die für Berlin gegebenen Zeiten des Ein- und Austritts nur die Längendifferenz anbringt. Wenn nämlich die Sehne vom Punkte des Eintritts zu dem des Austritts dem Mondmittelpunkt nahe liegt, so müfste der Unterschied der Parallaxe für Berlin und den anderen Ort schon nahe den Betrag des Mondhalbmessers erreichen, wenn dort die Sternbedeckung nicht sichtbar sein sollte; für nahe liegende Orte sind die Wirkungen kleiner Unterschiede der Parallaxen gerade in diesem Falle sehr gering.

Um allgemein für irgend einen Ort, dessen östliche Länge d und dessen geozentrische Breite φ' näherungsweise bekannt sind, im voraus zu bestimmen, welche Sternbedeckungen sichtbar werden, hat man nach den im Jahrbuch gegebenen Elementen folgendes zu beachten:

Nach den Angaben der Mondephemeride kennt man die Zeiten des Meridiandurchganges des Mondes (M), seine Deklination (δ) und die Deklination der Sonne. Nachdem man dann $(T + d)$ gebildet, wird man mit Hilfe einer Tafel der halben Tagbögen (wie sie in den Handbüchern der Nautik für alle Breiten sich berechnet finden) meist sogleich entscheiden können:

1) Ob Eintritt und Austritt nach Sonnenuntergang und Mondaufgang oder vor Sonnenaufgang und Monduntergang stattfinden. Auf die Vergröfserung des Tagbogens durch die Bewegung des Mondes und auf dessen Parallaxe ist vorläufig hierbei keine Rücksicht geboten, da deren Wirkungen in ihren mittleren Werten mittels der Tafel Seite [35] durch τ berücksichtigt werden.

Aus vorstehender Tafel, in welcher τ das Zeichen des Stundenwinkels hat, erhält man sogleich mit φ' und $T + d - M$ einen Näherungswert für τ und hiermit den genäherteren Stundenwinkel $t = T + d - M + \tau$ und $q_0 = q + \tau q'$. Einen genäherten Wert von v erhält man durch Berechnung von

$$\sin(\varphi' - D) + \cos\varphi' \sin D (1 - \cos t) \text{ [1]}.$$

2) Ist nun $q_0 - v < k$, so findet in der Regel eine Bedeckung statt, im entgegengesetzten Falle nicht. Da aber τ zuerst nur annäherungsweise bekannt ist, so mufs, wenn $q_0 - v$ dem Werte von k nur nahe kommt, eine ausführlichere Berechnung angestellt werden.

In vielen Fällen dieser Art genügen indes schon einige weitere Betrachtungen zur Entscheidung, ob der aus der Tafel entnommene Wert von τ dem wahren Werte von τ sehr nahe kommt, gröfser oder kleiner ist. Man wird nämlich leicht entscheiden können, ob $(q' - v')$ sehr klein,

[1]) Um für einen Ort eine allgemeine, für diesen Zweck genügende Tafel der v zu bilden, hat man höchstens 5 Werte von $\sin(\varphi' - D)$ und 2 Werte von $\cos\varphi' \sin D$ auf 2 oder 3 Stellen zu berechnen.

positiv oder negativ wird, das Zeichen von $(q_0 - v)$ ist in den erwähnten zweifelhaften Fällen sehr bestimmt zu erkennen. Der Wert von u hängt für eine bestimmte Breite des Ortes nur von $\sin t$ ab und kann nie gröfser als $\cos \varphi'$ werden. — Hiernach gilt folgende Regel:

3) Sind $(q_0 - v)$ und $(q' - v')$ gleichnamig (beide positiv oder beide negativ), so mufs $p_0 - u = \tau p' - u$ negativ, sind jene ungleichnamig, so mufs $\tau p' - u$ positiv, ist $(q' - v')$ sehr klein (also das Vorzeichen noch unbestimmt), so mufs $\tau p'$ nahe gleich u werden, wonach man den Tafelwert von τ sogleich um ein oder ein paar Zehntel der Stunde im richtigen Sinne verbessern kann.

Seite 415 enthält die Vorausberechnung der Sternbedeckungen für Berlin.

Jupiterstrabanten (S. 416—421).

Auf die Sternbedeckungen folgen die Erscheinungen der vier älteren Jupiterstrabanten, und zwar für sämtliche Trabanten zunächst die Angaben, aus denen man ihre Örter, wie sie vom Mittelpunkte der Erde aus gesehen zu einer beliebigen Zeit in Bezug auf den Mittelpunkt der Jupitersscheibe erscheinen, herleiten kann; sodann die Zeitangaben für die Verfinsterungen der Trabanten in dem Schattenkegel des Jupiter. Bei den Verfinsterungen ist für die beiden inneren Trabanten die Zeit des Ein- oder Austritts, für die beiden äufseren Trabanten die Mitte der Verfinsterung und ihre halbe Dauer angegeben, alles in mittlerer Berliner Zeit und so, wie man die Erscheinung beobachtet.

Für den geozentrischen Ort ist die Zeit der jedesmaligen scheinbaren oberen Konjunktion des Trabanten mit der Erde, d. i. die Zeit, wann Jupiter sich in der zur Trabantenbahn senkrechten Ebene zwischen der Erde und dem Trabanten befindet, angesetzt. Für jeden Trabanten kann man mit Hilfe der unten folgenden numerischen Angaben Tafeln berechnen, welche für die Dauer eines mittleren synodischen Umlaufs die Abszissen und Ordinaten des Ortes des Trabanten in seiner als kreisförmig angenommenen Bahn ergeben[1]). Die Achse der Abszissen liegt senkrecht auf der Konjunktionsebene, beide Koordinaten natürlich in der Ebene der Trabantenbahn und ihr Anfangspunkt im Mittelpunkte der Jupitersscheibe. Die Einheit, in welcher die Koordinaten ausgedrückt sind, ist der Halbmesser des Jupiter. Die kreisförmige Bahn wird sich der Erde als eine Ellipse darstellen, deren kleine Achse in der Konjunktionsebene liegt, so dafs die Abszissen ungeändert bleiben, die Ordinaten aber in dem Verhältnis der halben kleinen zur halben grofsen Achse vermindert werden müssen. Dieses Verhältnis, und zwar $b:a$, ist neben den Zeiten der oberen Konjunktion angesetzt. Wünscht man nun für eine Zeit T, welche zwischen zwei auf einander folgende Zeiten t und t' der

[1]) Solche Hilfstafeln sind in den Jahrbüchern bis zum Jahrgang 1871 gegeben.

oberen Konjunktion fällt, den Ort des Trabanten zu haben, so geht man mit dem Argument

$$T - t$$

in die Hilfstafeln ein, nimmt daraus die entsprechenden Werte von x und y', und hat damit in Halbmessern des Jupiter den Stand des Trabanten in Bezug auf den Mittelpunkt des Jupiter gegeben durch

$$x \text{ und } y = y' \frac{b}{a},$$

wobei man die Zeichen von x, y' und $b:a$ zu berücksichtigen hat. Das Zeichen der letzten Gröfse deutet an, welche Fläche der Trabantenbahn man sieht, ob die obere (nördliche, dem Nordpole der Ekliptik zugewandte bei positivem $b:a$), oder die untere (südliche).

Die Zeichen von x und y sind so gewählt, dafs für Berlin zur Zeit der Kulmination der Trabant für den Anblick im Fernrohre bei positivem x rechts, bei negativem x links vom Jupiter erscheint; bei positivem y ist er nördlich und beim negativen y südlich von einer Linie, welche mit den Streifen parallel durch das Zentrum des Jupiter gezogen werden kann.

Die Zeiten der Ein- und Austritte der Trabanten in die Jupitersscheibe kann man genähert aus

$$x^2 + y^2 = 1$$

berechnen.

Die Koordinaten der Trabanten berechnet man aus den folgenden Formeln:

$$\left.\begin{aligned} x &= [0.7559] \sin (203^\circ.40\, t) \\ y' &= [0.7559] \cos (203^\circ.40\, t) \end{aligned}\right\} \text{Trabant I}$$

$$\left.\begin{aligned} x &= [0.9576] \sin (101^\circ.29\, t) \\ y' &= [0.9576] \cos (101^\circ.29\, t) \end{aligned}\right\} \text{Trabant II}$$

$$\left.\begin{aligned} x &= [1.16017] \sin (50^\circ.235\, t) \\ y' &= [1.16017] \cos (50^\circ.235\, t) \end{aligned}\right\} \text{Trabant III}$$

$$\left.\begin{aligned} x &= [1.40552] \sin (21^\circ.488\, t) \\ y' &= [1.40552] \cos (21^\circ.488\, t) \end{aligned}\right\} \text{Trabant IV,}$$

wo t die seit der letzt vorangehenden oberen Konjunktion verflossene Zeit bezeichnet, ausgedrückt in Tagen, und wo die eingeklammerten Zahlen Logarithmen bedeuten. Die zu Grunde gelegten Werte der mittleren Entfernungen vom Jupiterszentrum (in Halbmessern der Jupitersscheibe) und die synodischen Umlaufszeiten sind beziehungsweise:

Trabant I.	5.70	$1^d\ 18^h\ 28^m.6$
» II.	9.07	3 13 17 .9
» III.	14.46	7 3 59 .6
» IV.	25.44	16 18 5 .1.

Die Angaben für die Jupiterstrabanten sind nach den Tafeln von Damoiseau und deren Fortsetzung von Pottier berechnet.

Saturnsring (S. 422—423).

Die Angaben für die scheinbare Gröfse des Saturn und für die Lage und Gröfse des Saturnsringes haben die folgende Bedeutung:

α Grofse Achse des Saturn.

β Scheinbare kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Grofse Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Breitenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise; östlich positiv, westlich negativ.

	1913	April 22	Aug. 28	Dez. 34
N	Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an	126° 56'.6	126° 57'.5	126° 58'.3
J	Neigung der Ringebene gegen den Erdäquator	6 52.2	6 52.1	6 52.0
ω	Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene	42 29.4	42 28.9	42 28.3

Es liegen folgende Bestimmungen nach Struve zu Grunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial	17''.47
Polar	15 .65

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\ 57'.0 \quad \text{und} \quad i_1 = 28^\circ\ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35.$$

Saturnstrabanten (S. 424—450).

Alle Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI,

abgeleiteten und im folgenden kurz angeführten Elementen durchgeführt. Einzelne Verbesserungen zu den Elementen hat Herr H. Struve handschriftlich mitgeteilt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Mimas
(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_\circ = 127^\circ\ 19'.0$
$n = 381^\circ.9945$
$\delta l = -44^\circ.243 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad - 0^\circ.75 \sin 3 (116^\circ.46 + 5^\circ.075\, t)$
$l_1 = E_\circ + nt_a + \delta l$
$\Theta = 54^\circ.7 - 365^\circ.3\, t$
$\gamma = 1^\circ\ 36'.5$
$\Pi_1 = 107^\circ.2 + 365^\circ.3\, t$
$e = 0.0190$
$a = 26''.814$

Enceladus
(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_\circ = 199^\circ\ 19'.8$
$n = 262^\circ.73199$
$\delta l = +11'.24 \sin(143^\circ + 92^\circ.4\, t)$
$\quad + 20'.0 \sin(75^\circ + 29^\circ.3\, t)$
$l_1 = E_\circ + nt_a + \delta l$
$\Theta = 328^\circ - 152^\circ.7\, t$
$\gamma = 1'.4$
$\Pi_1 = 308^\circ.38 + 123^\circ.43\, t$
$e = 0.0046$
$a = 34''.401$

Tethys
(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_\circ = 284^\circ\ 31'.0$
$n = 190^\circ.69795$
$\delta l = +118'.90 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad + 2'.02 \sin 3 (116^\circ.46 + 5^\circ.075\, t)$
$l_1 = E_\circ + nt_a + \delta l$
$\Theta = 110^\circ.55 - 72^\circ.5\, t$
$\gamma = 1^\circ\ 4'.36$
$e = 0.0000$
$a = 42''.586$

Dione
(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_\circ = 253^\circ\ 51'.4$
$n = 131^\circ.534955$
$\delta l = -1'.21 \sin(143^\circ + 92^\circ.4\, t)$
$\quad - 2'.13 \sin(75^\circ + 29^\circ.3\, t)$
$l_1 = E_\circ + nt_a + \delta l$
$\Theta = 276^\circ - 31^\circ.0\, t$
$\gamma = 4'.0$
$\Pi_1 = 165^\circ + 31^\circ.0\, t$
$e = 0.0020$
$a = 54''.543$

Rhea
(II, Seite 176).

Epoche: 1889 April 0.0 mittl. Greenw. Zeit.

$$E_0 = 358^\circ\ 23'.8$$
$$n = 79^\circ.690087$$
$$E - E_0 = +\ 4'.95 \sin(347^\circ.3 - 10^\circ.1\ t)$$
$$l = E_0 + nt_d + (E - E_0)$$
$$(\Omega - \Omega_1) \sin i_1 = 19'.77 \sin(347^\circ.3 - 10^\circ.1\ t) - 0'.38 + 1'.00 \sin(48^\circ.5 - 0^\circ.50\ t)$$
$$i - i_1 = 19'.77 \cos(347^\circ.3 - 10^\circ.1\ t) - 2'.79 + 1'.00 \cos(48^\circ.5 - 0^\circ.50\ t)$$
$$\Pi = 305^\circ + 10^\circ.1\ t$$
$$e = 0.0009$$
$$a = 76''.170$$

Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

Titan
(II, Seite 172).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$E_0 = 260^\circ\ 25'.1$$
$$n = 22^\circ.577009$$
$$E - E_0 = +\ 4'.05 \sin(47^\circ.8 - 0^\circ.51\ t)$$
$$l = E_0 + nt_d + (E - E_0)$$
$$\Omega = 167^\circ\ 51'.2 + 35'.84 \sin(47^\circ.8 - 0^\circ.506\ t) + 0'.837\ t$$
$$i = 27^\circ\ 28'.4 + 16'.88 \cos(47^\circ.8 - 0^\circ.506\ t)$$
$$\Pi = 276^\circ\ 15' + 31'.7\ t + 22'.0 (\sin 2g - \sin 2g_0)$$
$$e = 0.02886 + 0.000186 (\cos 2g_0 - \cos 2g)$$
$$g = \Pi - \Omega - 4^\circ.5$$
$$g_0 = g \text{ für } t = 0$$
$$a = 176''.578$$

Hyperion
(II, Seite 290).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$E_0 = 304^\circ.53$$
$$n = 16^\circ.919983$$
$$\delta l = 9^\circ.16 \sin(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$l = E_0 + n \,.\, t_d + \delta l$$

Äquinoktium: 1890.0. Epoche: 1890.0 + t.

$$\Omega = 167^\circ\ 49'.7 + 42'.4 \sin(47^\circ.8 - 0^\circ.50\ t) + 78'.1 \sin(121^\circ.7 - 2^\circ.0\ t)$$
$$i = 27^\circ\ 20'.8 + 19'.6 \cos(47^\circ.8 - 0^\circ.50\ t) + 36'.2 \cos(121^\circ.7 - 2^\circ.0\ t)$$

Epoche und Äquinoktium: 1888.890 + t.

$$\Pi = 276^\circ.50 - 18^\circ.663\,t + 14^\circ.0 \sin(-0^\circ.84 + 19^\circ.191\,t) - 1^\circ.5 \sin(-1^\circ.68 + 38^\circ.382\,t)$$
$$e = 0.1043 + 0.0230 \cos(-0^\circ.84 + 19^\circ.191\ t) + \delta e$$
$$e\delta e = -\ 0.00044 \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$a = 213''.92 + \delta a$$
$$\delta a = -\ 0.00354\ a \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$

Japetus

(I, Seite 87; II, Seite 139).

Epoche: 1885 Sept. 1.0 mittl. Greenw. Zeit.

$E_0 = 75° 26'.4$	$i = 18° 28'.3 - 0'.54\, t$
$n = 4°.537997$	$\Pi = 354° 30' + 7'.9\, t$
$l = E_0 + n \,.\, t_d$	$e = 0.02836 + 0.000015\, t$
$\Omega = 142° 12'.4 - 1'.48\, t$	$a = 514''.59$

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\varrho) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 424 bis 434 die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkeligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der grofsen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise den Winkel P einschliefst, aus den Gleichungen:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u - U).$$

Die Gröfsen U und B sind Seite 423 zu entnehmen. $(\varrho) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, ϱ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u-U) + \sin\gamma \operatorname{cotg} B \sin(u-\vartheta)];$$

hierin bezeichnet ϑ die Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator; ϑ ergibt sich aus:

$$\vartheta = \Theta - \Omega_1 + \omega$$

für Tethys ist $\frac{r}{a} = 1$.

Will man aus x und y noch Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 435 bis 443 finden sich für die drei äufseren Trabanten Titan, Hyperion und Japetus, aufser den Hilfsgröfsen U, B und P, die Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten wahren Trabantenörter beziehen sich auf das mittlere Äquinoktium der Epoche.

Zum Schlufs enthalten die Seiten 444—450 die Zeitangaben für die östlichen und westlichen Elongationen der Saturnstrabanten und für die oberen und unteren Konjunktionen von Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 451).

In der Übersicht der Konstellationen des Jahres 1913 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Gröfse, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeckungen der Planeten und der helleren Fixsterne (bis

2. Gröfse) durch den Mond auf der Erde überhaupt sind hier ebenfalls nochmals mit aufgeführt. — Die Konjunktionen der Planeten mit dem Mond und untereinander sind als Konjunktionen in AR. zu verstehen. Letztere sind nur insoweit berücksichtigt, als die Differenz der Deklinationen beider Planeten den Betrag von 3° nicht übersteigt. Die Epochen der gröfsten Helligkeit der Venus sind nach der Formel für die Lichtstärke von G. Müller (*Publikation des Astrophys. Observatoriums zu Potsdam,* Bd. VIII, Seite 197 ff.) berechnet.

Hilfstafeln (S. 452—464).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Die Tafel zur Berechnung der physischen Mondlibration (Seite 452). Die zur Berechnung der physischen Mondlibration dienenden Ausdrücke sind auf Seite 452 vollständig gegeben. Sie beruhen auf der Annahme $f = 0.75$, worüber F. Hayn (Selenographische Koordinaten III, Seite 49) einzusehen ist.

2) Die Tafel zur Berechnung der optischen Mondlibration (Seite 453 und 454) reproduziert (mit $J = 1° 32' 6''$ berechnet) die Enckesche Tafel (Berl. Jahrb. 1843); sie gestattet in Verbindung mit den Angaben der Seite 88 die rasche Berechnung der optischen Libration in selenographischer Länge und Breite nach den Formeln, die auf Seite 454 vollständig aufgeführt sind. Hierbei ist die Kenntnis der auf den Beobachtungsort als Nullpunkt bezogenen Längen und Breiten des Mondes notwendig; man kann dieselben aus der mit Hinzufügung der Parallaxe berechneten AR. und Dekl. des Mondes ableiten, wozu man sich der gewöhnlichen Umwandlungsformeln oder, wenn nicht gröfsere Genauigkeit erfordert wird, der Enckeschen Hülfstafel in der Veröffentlichung Nr. 14 des Recheninstituts bedienen kann.

3) Eine Tafel mit Angabe der Bruchteile des tropischen Jahres, die den nebenstehenden mittleren Daten (0^h Mittl. Zeit Berlin) entsprechen. (Seite 455 und 456.)

4) Eine Tafel für die Ermittelung eines Datums in der julianischen Periode. (Seite 457 und 458.)

5) Die Hilfstafeln zur gegenseitigen Verwandlung von mittlerer Zeit und Sternzeit (Seite 459 und 460).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (Seite 461 und 462).

7) Eine Tafel der Hilfsgröfsen zur Berechnung der Präzession von den hauptsächlichsten Sternkatalog-Epochen bis 1913.0 (Seite 463).

8) Eine Tafel der Hilfsgröfsen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium von 1913.0 (Seite 464).

Koordinaten der Sternwarten (S. 465—472).

Die Seiten 465 bis 472 enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben worden, wo sie sich einigermafsen sicher ermitteln liefsen; zumeist sind sie dem Verzeichnis von Prof. Auwers im *Geographischen Jahrbuch* entnommen worden; bei der Berechnung von log ϱ sind sie berücksichtigt.

Die geozentrischen Koordinaten sind nach den Besselschen Erddimensionen berechnet.

Die Kolumne »Korrektion der Sternzeit« enthält für jeden Ort die Differenz: Sternzeit im mittleren Ortsmittag minus Sternzeit im mittleren Berliner Mittag.

Das Verzeichnis hat im vorliegenden Jahrgang Änderungen bezw. Zusätze für die Lage folgender Sternwarten erfahren:

Breteuil	nach	Mitteilung von Herrn René Benoît.
Budapest	»	» » » K. Oltay.
Bukarest	»	Mitteil. v. Hrn. Prof. Albrecht, Potsdam.
Coimbra	»	dem *Nautical Almanac* 1913.
Groningen	»	Mitteilung von Herrn I. C. Kapteyn.
Philadelphia (Flower Obs.)	»	der *American Ephemeris* 1912.
Turin, Venedig	»	dem *Nautical Almanac* 1913.

Bahnelemente der kleinen Planeten (S. (2)—(38)).

Die Seiten (2)—(38) enthalten die Bahnelemente der kleinen Planeten nach den neuesten Bestimmungen. Die unmittelbar den Namen folgenden Kolumnen geben das Datum der Opposition im Jahre 1911 und die Gröfse des Planeten zur Zeit der Opposition.

Ferner sind gegeben zwei Kolumnen m_0 und g, welche zur Berechnung der Gröfse des Planeten dienen. Es bedeutet m_0 die mittlere Gröfse, d. h. diejenige Gröfse, welche der Planet in seiner mittleren Entfernung a von der Sonne und der gleichzeitigen Entfernung $a-1$ von der Erde haben würde; ferner ist g eine Gröfse, welche aus m_0 nach der Formel

$$g = m_0 - 5 \log a\,(a-1)$$

berechnet ist, und welche dazu dient, für einen beliebigen geozentrischen Ort des Planeten seine Gröfsenklasse M zu berechnen. Ist Δ die Entfernung des Planeten von der Erde, r seine Entfernung von der Sonne, so ist seine Gröfse

$$M = g + 5\,(\log \Delta + \log r).$$

Seit dem Erscheinen des letzten Jahrbuches sind für die folgenden 17 Planeten elliptische Bahnrechnungen ausgeführt worden, so daß sie als gesichert mit Nummern versehen werden konnten:

675	*DU*	entdeckt	1908	Aug.	30	von	Metcalf, Taunton	
676	*FN*	»	1909	Jan.	16	»	Melotte, Greenwich	
677	*FR*	»	»	»	18	»	Kopff	
678	*FS*	»	»	»	22	»	Lorenz	
679	Pax	»	»	»	28	»		
680	*GW*	»	»	April	22	»		
681	*GZ*	»	»	Mai	13	»	Kopff	Königstuhl
682	*HA*	»	»	Juni	17	»		
683	*HC*	»	»	Juli	23	»	Wolf	
684	*HD*	»	»	Aug.	8	»	Kopff	
685	*HE*	»	»	»	12	»	Lorenz	
686	*HF*	»	»	»	15	»	Kopff	
687	Tinette	»	»	»	16	»		
688	Melanie	»	»	»	25	»	Palisa, Wien	
689	*HJ*	»	»	Sept.	12	»		
690	Wratislavia	»	»	Okt.	16	»	Metcalf, Taunton	
691	Lehigh	»	»	Dez.	11	»		

Oppositionsdaten der kleinen Planeten und ausführliche Oppositionsephemeriden

(S. (39)—(73)).

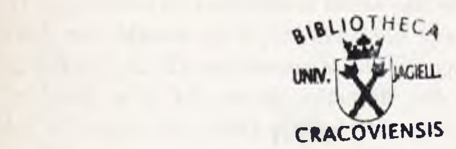
Von den 533 im Jahre 1911 und zu Anfang des Jahres 1912 stattfindenden Oppositionen der kleinen Planeten (1)—(691) ist Seite (39)—(52) eine übersichtliche Zusammenstellung, nach der Oppositionszeit geordnet, gegeben. In diesem Verzeichnisse sind neben dem Namen des Planeten der Tag der Opposition in AR., die Gröfse, der genäherte geozentrische Ort, die tägliche Bewegung an jenem Tage, der Logarithmus der Entfernung des Planeten von der Erde und aufserdem das Jahr, in welchem der Planet zum letzten Male beobachtet wurde, angegeben.

Für 21 Planeten, welche in dem Oppositionsverzeichnis durch ein Sternchen (*) bezeichnet sind, enthalten die Seiten (53)—(73) ausführliche Ephemeriden, welche der Redaktion von den unterzeichneten Herren gütigst zur Verfügung gestellt wurden; für 67 weitere Planeten, deren Beobachtung im Jahre 1911 erwünscht erscheint, sind genäherte Oppositionsephemeriden in der Veröffentlichung Nr. 40 des Recheninstitutes gegeben.

Nachweisungen über die kleinen Planeten
(S. (74)—(93)).

Das die Nachweisungen über die Beobachtung und Berechnung der kleinen Planeten enthaltende Verzeichnis gibt in zwei Abschnitten eine Übersicht der Stellen in den verbreitetsten Publikationsorganen, wo A. Beobachtungen, B. Berechnungen in bezug auf die kleinen Planeten sich vorfinden. Das Nähere ist aus dem Verzeichnisse selbst unmittelbar zu ersehen. — Die Übersicht umfaſst Band 182, S. 253 bis Band 186, S. 32 einschl. der *Astronomischen Nachrichten* (A. N.); das *Bulletin Astronomique* (B. A.), Band 26, S. 369 bis Band 27, S. 368; die *Monthly Notices* (M. N.), Band 70; Band V der *Lick Observatory Bulletins* (L. B.); Band 26, S. 39 bis 146 des *Astronomical Journal* (A. J.) und die *Transvaal Observatory Circulars* (T. C.). Die Übersicht bezieht sich auf die Zeit von 1909 Okt. 1 bis 1910 Sept. 30.

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